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S. MacLean

1964 - 1968

Catalog:

1964 – 1968: #230 – 859

Trapline catalog:

1964

Stomach contents catalog:

1966 - 1968





S. MacLean

1964 - 1968

Catalog:

1964 - 1968: #230 - 859



Maclean  
1964

# Specimen Catalogue

10 June

## Barrow, Alaska

-MVZ ✓ 230 ad ♀

Erolia fuscicollis - 55.1g. Fol - 17, 8, 4, 3 mm.

Fat heavy. Oviduct distended, no sign of ruptured fol.

15 June

## Barrow, Alaska

-MVZ ✓ 231 ad ♂

Calidris melanotos - 84.1g.  $t = 13 \times 7$  mm. Fat light

(except throat region - v. heavy)

12 June

## Barrow, Alaska

232 ad ♂

Lemmus trimucronatus - 64.8g. 149, 11, 18, -

$t = 10$  mm; epid. +. Fat 1, bites 0, no molt.

17 June

## Barrow, Alaska

UCSB 233 ad ♂

Plectrophenax nivalis - 36.5g.  $t = 11 \times 9$  mm; fat moderate

UCSB 234 ad ♀

Plectrophenax nivalis - 42.4g. 1 ruptured fol. ova 7, 4 mm.

Fat heavy. Brood patch developing.

16 June

## Barrow, Alaska

235 ad ♀

Mustela nixosa - 35.4g. - 159, 17, 19, 6. No embryos,

no scars. UH 1 mm, Fat heavy. Collected by Pete Sovalik -  
Barrow Village.

22 June

## Barrow, Alaska

-MVZ 236 ad ♀

Dicrostonyx groenlandicus - 32.5g; 109, 9, 14, -

line 5, sta. 4.6. no embryos or scars. UH 1.5 mm

25 June

## Barrow, Alaska

-MVZ 237 ad ♂

Larus hyperboreus - 137.9g.  $t = 20$  mm; Fat heavy

UCSB 238 ad ♂

Sterna paradisaea - 93.8g.  $t = 7$  mm. Fat moderate.

-MVZ 239 ad ♂

Canidris canutus - 123.4g.  $t = 12$  mm; fat moderate.

27 June

## Barrow, Alaska

UCSB 240 ad ♂

Clangula hyemalis - 558.7g.  $t = 16 \times 7$  mm, Fat light.

9 June

Inaru River, 25 mi. So. of Barrow, Alaska

(1963) 241 ad ♂

Mustela nixosa - 104.6g. - 195, 22, 27, 9. Fat moderate





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Specimen Catalogue

27 June

Barrow, Alaska

242 ad. ♂ Calidris alpina - 61.2g.  $t = 7 \times 5$ , fat heavy  
Brood patch well developed.

243 ad.

Canis lupus - lower jaw.

29 June

Barrow, Alaska

244 ad ♂ Calidris fascicollis - 40.8g.  $t = 9 \times 5$  mm, fat  
moderate. Molting on capital feather. No brood patch

UCSB 245 ad ♀ Phalaropus fulicarius - 51.6g. 4 rupt. fol. fat heavy

30 June

Barrow, Alaska

246 ad ♂ Tyrnites subruficollis - 68.5g.  $t = 13 \times 8$  mm; fat heavy.

1 July

Barrow, Alaska

247 ad ♂ Canoris bairdii - 35.4g.  $t = 7 \times 4$  mm; fat heavy.  
extensive general molt of contour feathers.

2 July

Barrow, Alaska

UCSB 248 ad. ♂ Pluvialis dominica - 160.1g.  $t = 9 \times 4$ , fat heavy

21 Sept.

Barrow, Alaska

UZ (1963) 249 ad. ♂ Rhopostethia rosea - 169.3g. fat light  
fall.

Barrow, Alaska

UZ (1963) 250 ad ♀? Pagophila eburnea - 463.0g. fat light. skeleton

3 July

Barrow, Alaska

UCSB 251 ad ♀ Arenaria interpres - 115.3g. 1g. fol. 2mm,  
fat heavy. brood patch present.

21 Sept. 252 ad ♀

Dicrostonyx groenlandicus - 61.5g - 28, 11, 18, -.

(1963)

pregnant (?) pelvis open. skeleton

W. Mich

253 ad ?

Rhopostethia rosea - 175.9g. skeleton

W. Mich

254 ad. ♂ (?)

Rhopostethia rosea - 185.1g. skeleton

Winter

Barrow, Alaska

1963-64 255 ad ♀ Nyctea scandiaca - skull only.



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# Specimen Catalogue

4 July

## Barrow, Alaska

- U.C. SB 256 ad ♂ Somateria spectabilis - 1471 g. t = 15x7mm, fat light  
- MVZ 257 ad ♀ Stercorarius longicaudus - 316.5g. lg. fol 2mm, fat mod.  
- MVZ 258 ad ? Hylocichla minima - found dead and desiccated. Injected  
259 juv. Calidris alpina - 6.2g. < 1 day old. stomach empty

6 July

## Barrow, Alaska

- MVZ 260 juv. Calidris fuscicollis - 4.9g. food in stomach  
- MVZ 261 juv. Calidris bairdii - 17.4g. x  
- MVZ 262 ad. ♂ Tryngites subruficollis - 66.3g. t = 11x5mm, fat moder.  
- MVZ 263 ad. ♂ Tryngites subruficollis - 65.8g. t = 9x5mm. Skeleton.  
MVZ 264 ad. ♂ Calidris fuscicollis - 40.7g. t = 8x4, fat mod. beg. molt  
- MVZ 265 ad. ♂ Calidris fuscicollis - 42.1g. t = 7x3mm, heavy body molt.  
- MVZ 266 ad. ♂ Calidris fuscicollis - 39.2g. t unmeasurable, light molt.  
- MVZ 267 ad. ♂ Calidris fuscicollis - 40.1g. t = 8x3mm; heavy body molt.

5 July

## Barrow, Alaska

- UCSB 268 ad. ♂ Gavia arctica - 2175g. t = 18x11mm, fat moderate

Collected by R. Tenaza

6 July

## Barrow, Alaska

- UCSB 269 ad. ♀ Phalaropus dominica - 166.9g. lg. fol. 2mm, fat very heavy x

10 July

## Barrow, Alaska

- MVZ 270 juv. Calidris pusillus - 16.4g. - x  
- MVZ 271 juv. ♂ (?) Calidris melanotos - 22.6g. - x

6 July

## Barrow, Alaska

- MVZ 272 ad. ♀ Arenaria interpres - 117.1g. lg. fol. 2mm, fat heavy x  
no brood patch.

Spring

## Barrow, Alaska

- MVZ 273 ad. Uria lomvia. found dead on beach. Skeleton.





Hacken  
1964

# Specimen Catalogue

9 July

## Barrow, Alaska

-MVZ 274 1<sup>st</sup> year ♂ Stercorarius parasiticus - 303.6g. dark phase.  
t = 8x3mm, fat heavy. Collected by Gary Stevens.

9 July

## Wainwright, Alaska.

MVZ 275 juv. Canisauris mauri (?) - 14.7g. line III - sec. 0.2.

8 July

## Wainwright, Alaska

MVZ 276 juv. Canisauris mauri (?) - 13.4g. line III ?

14 July

## Barrow, Alaska

-MVZ 277 juv. Canisauris fuscicollis - 25.4g.

278 juv. ♂ Canisauris melanotos - 23.6g. trapline X - 5.4

15 July

## Barrow, Alaska

-MVZ 279 ad. ♂ Canisauris pusillus - 23.0g. trapline I - 3.4 \*  
t = 2mm, fat moderate. t = 8.8

-MVZ 280 ad. ♂ Canisauris fuscicollis - 42.8g. t = 3mm. fat heavy. heavy molt.

14 July

## Barrow, Alaska

UCSB 281 ad. ♂ Stercorarius parasiticus - 462.2g. t = 12x4mm

fat heavy. Stomach contents: 1 old longspur juv.;  
1 recent longspur juv.; 1 recent pectoral sandpiper juv.

16 July

## Barrow, Alaska

-MVZ 282 juv. Troglodytes subruficollis - 8.7g. < 1 day old.

-MVZ 283 juv. Canisauris melanotos - 13.8g.

Long 2 284 ad. ♀ Canisauris fuscicollis - 40.3g. lg. fol. 1mm, fat heavy.

-MVZ Brood patches present. Molt - capitol tract; light on body.

-MVZ 285 ad. ♂ Canisauris fuscicollis - 34.1g. t = 2mm, fat moderate.

moderate body molt.

lg. fol. 286 ad. ♀ Canisauris fuscicollis - 41.7g. lg. fol. 1mm, fat moderate.

molt light. Old brood patch present.



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# Specimen Catalogue

16 July

## Barrow, Alaska

lg. flock 287 ad. ♂  
-MVZ

Canoris fuscicollis - 41.9 g.  $t=3\text{mm}$ , fat moderate  
molt heavy. ~~tail~~ full plumage nearly complete.

lg. flock 288 ad. ♂  
-MVZ

Canoris fuscicollis - 36.5 g.  $t=3\text{mm}$ , fat moderate  
molt heavy.

sm. flock 289 ad. ♀  
disc MVZ

Canoris fuscicollis - 40.3 g. lg. fd. 1 mm, fat moderate  
molt heavy on head, light elsewhere. stomach only.

UCSB 290 juv. ♂

Canoris alpina - 34.0 g.  $t=2\text{mm}$ . line I - 9.0

UCSB 291 ad. ♂

Stercorarius parasiticus - 488.3 g. dark phase.

$t=9 \times 5\text{mm}$ , fat moderate. Stomach - 2 young Reophobopus juvs.

18 July

## Barrow, Alaska

-MVZ 292 juv. ♀?

Troglodytes subruficollis - 15.6 g.

UCSB 293 juv.

Pluvialis dominica - 26.9 g.

-MVZ 294 juv.

Pluvialis dominica - 61.8 g.

-MVZ 295 juv. ♂

Branta nigricans - 87.1 g.  $t=4 \times 1\text{mm}$ . grass in stomach.

19 July

## Barrow, Alaska

-MVZ 296 ad. ♀

Canoris fuscicollis - 38.1 g. lg. fd. 1 mm, fat moderate

molt heavy on capitol tract; light elsewhere.

brood patches present - non-vascular.

-MVZ 297 imm.

Canoris <sup>maillardi</sup> pusillus - 23.4 g. trapline VII - 9.2 X

me 298 ad.

Stercorarius pomarinus - skull only.

Winter

## Barrow, Alaska

1963 299 ad. ♀

Nyctea scandiaca - skull only

23 July

## Barrow, Alaska

-MVZ 300 ad. ♂

Canoris alpina - 49.4 g. trapline III-a - 0.2

$t=2\text{mm}$ , fat moderate; brood patches present

21 July

## Barrow, Alaska

301 juv.

Phalaropus fulicarius - 16.0 g. trapline XIII - 3.4 X





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Specimen Catalogue

8 July

UCSB 302 juv.

Wainwright, Alaska  
mutus

Lagopus lagopus - 17.5g. line III - 6.2 fat moderate

23 July

UCSB 303 ad. ♂

Barrow, Alaska

Stercorarius longicaudus - 248.6g. t=5mm,

fat moderate. Phalarope chick in stomach.

24 July

-MVZ 304 ad ♀

Barrow, Alaska

Polysticta stelleri - 780.8g. 1g. fol. 3mm, fat light

brood patch well developed.

27 July

-MVZ 305 Imm. ?

King Salmon, Alaska Peninsula, Alaska

Vermivora celata? 11.8g.

-MVZ 306 Imm. ?

Zonotrichia atricapilla (?) - 17.0g.

-MVZ 307

ad. ♂(?) Perisoreus canadensis - 73.8g.

-MVZ 308

Imm. ♂ Lagopus lagopus - 290.3g. t=2mm, fat light

Crop - 7.1g - 1/3 grass, 1/3 leaves, 1/3 red berries.

-MVZ 309

ad. ♂ Lagopus lagopus - 559.5g. t=4mm, fat very light

Crop 8.3g. - 60% red berries, 20% grass, 20% leaves

24 July

Barrow, Alaska

UCSB 310 ad. ♀

Gavia adamsii - 11 3/4 lbs. 1g. fol. 41mm, fat mod.

27 July

King Salmon, Alaska Peninsula, Alaska

-MVZ 311

Imm. ? Perisoreus canadensis - 67.2g.

-MVZ 312

Imm. ? Lagopus lagopus - 252.1g.

Crop - 4.3g. : 40% leaves, 40% grass, 20% berries.

-MVZ 313

ad. ♂ Circus unicolor - 591.0g. : 347, 90, 56, 10.

30 July

Barrow, Alaska

-MVZ 314

ad. ♀ Canis lupus - 43.8g. 1g. fol. 41mm, fat heavy.

No brood patches. No fat heavy.

UCSB 315

ad. ♀ Stercorarius pomarinus - 715.8g. 1g. fol. 3mm.

fat heavy. Brood patch present.



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Specimen Catalogue

27 July

King Salmon, Alaska Peninsula, Alaska

~~277~~  
mol

316 Imm.

Lagopus lagopus - 264.7g. Live mount.

Crop 3.0g. 60% no series, 20% leaves, 20% grass

31 July

Barrow, Alaska

-MVZ

317 Juv.

Tyrngites subruficollis - 35.6g.

UCSB

318 Ad. ♀

Somateria spectabilis - 1792.8g. lg. fol. 2mm, fat heavy  
no brood patch. molt moderate.

3 August

Barrow, Alaska

-MVZ

319 juv. ♂

Gavia arctica - 650.0g. t=3mm

-MVZ

320 ad. ♀

Arenaria interpres - 119.0g. lg. fol. 4mm, fat very heavy.

-MVZ

321 ad. ♀

Squatarola squatarola - 239.4g. lg. fol. 2mm, fat very heavy.

-MVZ

322 ad. ♀

Calidris fuscicollis - 36.9g. lg. fol. 1mm, fat moderate  
molt moderate. Old brood patches present.

-MVZ

323 imm. ♂

Calidris melanotos - 67.6g. t=3mm

UCSB

324 ad. ♂

Xema sabini - 192.6g. t=3mm, fat moderate

325 ad. ♂

Sterna paradisea - 116.0g. t=3mm, fat moderate

9 August

Barrow, Alaska

-MVZ

326 Imm.

Calidris fuscicollis - 31.6g.

3 August

Barrow, Alaska

-MVZ

327 Imm.?

Xema sabini - 208.6g

10 August

Barrow, Alaska

-MVZ

328 Imm ♂

Tyrngites subruficollis - 57.0g. t=2mm, fat mod.

-MVZ

329 Imm ♂

Tyrngites subruficollis - 59.9g. t=2mm, fat mod.

-MVZ

330 Imm. ♀

Tyrngites subruficollis - 42.0g. lg. fol. minute, f. mod.

-MVZ

331 Imm.

Calidris pusillus - 23.6g.

-MVZ

332 Imm.

Calidris fuscicollis - 40.0g.

-MVZ

333 Imm.

Calidris fuscicollis - 31.8g.

-MVZ

334 Ad. ♀

Calidris fuscicollis - 42.1g. heavy molt. fat mod.



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# Specimen Catalogue

10 August

## Barrow, Alaska

335 Imm. ♀ Calidris alpina - 49.7g. stomach only.

31 July

## Barrow, Alaska

336 ad. ♀ Calidris alpina stomach and skull ad  
1g. fat. imm, molt heavy.

337 ad. ♀ Calidris alpina - 1g. fat. < 1mm, molt heavy. stomach

3 August

## Barrow, Alaska

338 Imm. ♂ Calidris alpina - 42.2g. t=2mm. stomach.

339 ad. ♀ Xema sabini - 180.0g. fat light. ktd. < 1mm

11 August

## Barrow, Alaska

WesB 340 Imm. Phalaropus fulicarius - 44.9g.

-MVZ 341 Imm. ? Phalaropus fulicarius - 46.2g.

-MVZ 342 Imm. ♂ Calidris fuscicollis - 37.4g. t=2mm

-MVZ 343 Imm ♂ Calidris <sup>maurici</sup> pusillus - 22.2g. t=2mm.

344 ad ♀. Calidris melanotos - 71.3g. 1g. fat. < 1mm, fat very heavy.

345 Imm. Tyrngites subruficollis - 47.3g.

13 August

## Barrow, Alaska

346 Imm. Tyrngites subruficollis - 45.6g. stomach only

347 Imm. Tyrngites subruficollis - 48.8g.

348 Sa ♂ Clethrionomys rutilus - 28.9g.





Loeban  
1964

# Specimen Catalogue

15 August

## Cape Thompson, Alaska

- MVZ 349 ad ♂ Anthus spinoletta - 20.0g. t=1mm, fat mod.  
-MVZ 350 ad ♀? Limosa lapponica - 237.2g. fat moderate.

16 August

## Cape Thompson, Alaska

- MVZ 351 ad. ♀ Oenanthe oenanthe - 23.6g. lg. fol. <1mm, fat moderate  
UCSB 352 ad. ♂ Oenanthe oenanthe - t=1mm, fat moderate.  
-MVZ 353 juv. Uria lomvia - 59.7g.  
-MVZ 354 juv. Uria lomvia - 91.3g.  
UCSB 355 ad. ♀ Rissa tridactyla - 393.5g. lg. fol. 3mm, fat light  
-MVZ 356 ad. ♂ Corvus corax - 1485g. t=4mm, fat light  
-MVZ 357 ad. ♂ Calidris <sup>mauri</sup> pusillus - 23.5g. t=1mm, fat moderate.

17 August

## Cape Thompson, Alaska

- MVZ 358 ad ♂ Limnodromus <sup>scolopaceus</sup> ~~griseus~~ - 96.9g. t=2mm, fat light  
-MVZ 359 juv. Uria lomvia - 102.7g.  
-MVZ 360 juv. Uria lomvia - 77.9g.  
UCSB 361 ad. ♂ Fratercula corniculata - 706.3g. t=8x6mm, fat moderate  
brood patches present.  
UCSB 362 ad. ♂ Uria aalge - 868.9g. t=20x10mm, fat moderate.  
brood patches present.  
-MVZ 363 ad. ♀ Uria aalge - 842.6g. lg. fol. 4mm, fat mod. No b.p.  
364 ad. ♀ Fratercula corniculata - 530.0g. lg. fol. 2mm, fat mod.  
brood patches present.

18 August

## Cape Thompson, Alaska

- UCSB 365 ad. ♀ Uria lomvia - 1027.1g. lg. fol. 2mm, fat moderate.  
brood patches present.  
-MVZ 366 ad. ♂ Uria lomvia - 897.4g. t=13x5mm, fat moderate.  
brood patch present. (no b.p. - fat light)  
-MVZ 367 ad. ♀ Fratercula corniculata - 627.0g. lg. fol. 3mm



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# Specimen Catalogue

18 August

## Peters Lake, Alaska

368 sub. ♂ Microtus micurus - 26.6g. - 146, 25, 18, 10. t=10mm.

20 August

## Cape Thompson, Alaska

- MVZ 369 ad. ♀ Lobipes lobatus - 27.3g. lg. fol. < 1mm, fat light

- MVZ 370 Imm. Limnodromus <sup>scolopaceus</sup> ~~griseus~~ - 88.3g. fat moderate

371 Imm. ♀ Lagopus lagopus - 425.8g. lg. fol. < 1mm, fat light

- MVZ 372 Imm. ♀ Lagopus lagopus - 446.1g. lg. fol. < 1mm, fat light

Crop wt. 31.7g. : 30% willow leaves; 30% willow buds, 30% red berries.

373 Imm. ♂ Lagopus lagopus - 493.1g. t=3mm, fat light

Crop wt. 29.8g. 30% Dryas + Salix leaves, 30% red berries,  
40% Carex sedge leaves.

Chloris 374 Ursus horribilis - smt.

375 ad. Corvus corax - skull only.

12 August

## Barrow, Alaska

- MVZ 376 Imm. Canidris fuscicollis - 38.7g. fat heavy.

3 August

## Inaru River, Alaska

377 ad. ? Sterna paradisica - 88.1g. fat light

29 August

## Barrow, Alaska

DISC 378 imm ♀ Limnodromus scolopaceus - 114.2g. stomach + legs

12 August DISC 379 imm. Teyngites subruficollis - 55.4g. stomach only

DISC 380 imm. Limnodromus scolopaceus - 92.8g. stomach

381 ad (?) ♂ Teyngites subruficollis - 52.6g. stomach t=3mm

DISC 382 ad (?) ♀ Canidris melanotos - 55.0g. stomach

DISC 383 imm. Canidris melanotos - 84.2g. - stomach

16 August

## Barrow, Alaska

DISC 384 imm ♂ Calidris <sup>mauii</sup> ~~pusilla~~ t=2mm. stomach

11 August

## Barrow, Alaska

385 ad. ♀ Anas acuta - 793.0g. lg. fol. 1mm, fat mod.



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Specimen Catalogue

7 September Barrow, Alaska

- 386 ad. ♂ Lemmus trimucronatus - 44.9g. - 120, 10, 17, - .  
t = 9mm.; epio. +; fat 1, heavy molt, bites -
- 387 ad. ♂ Lemmus trimucronatus - 41.6g. - 119, 10, 18, - .  
t = 9mm.; epio. +; fat 1 heavy molt, bites +
- 388 ad. ♀ Lemmus trimucronatus - 55.9g. - 123, 19, 19, -  
Pregnant -  $2\frac{1}{4}$  res. 24mm. Pelvis open, nip. +.
- 389 ad. ♀ Lemmus trimucronatus - 35.8g. 117, 9, 18, - .  
vag. open, u.h. 2mm. pelvis closed. nip. -
- 390 ad. ♀ Lemmus trimucronatus - 44.7g. 126, 10, 11, -  
Pregnant -  $\frac{1}{3}$  - 7mm. + scars. Pel. open, nip +
- 391 ad. ♀ Lemmus trimucronatus 41.2g. - 120, 11, 17, - .  
vag. open, u.h. 2mm. pel. closed. nip - .
- 392 ad. ♂ Lemmus trimucronatus - 61.4g. - 137, 11, 20, -  
t = 10mm, epio. +
- 393 ad. ♀ Lemmus trimucronatus - 38.1g. - 119, 10, 18, - .  
Pregnant -  $2\frac{1}{2}$  res / 1 + 1 res. 13mm. Pel. closed, nip. - .
- 394 ad. ♂ Lemmus trimucronatus - 40.3g. 123, 9, 18, - .  
t = 8mm, epio. +.
- 395 ad. ♂ Lemmus trimucronatus - 38.8g. - 132, 10, 19, 0.  
t = 8mm, epio. +
- 396 J-SA ♀ Lemmus trimucronatus - 24.4g. - 112, 9, 17, - .  
\* vag. closed, u.h. 1mm. pel - , nip -
- 397 SA ♂ Lemmus trimucronatus - 29.4g. - 120, 10, 18, - .  
t = 5mm, epio. - .
- 398 ad. ♀ Lemmus trimucronatus - 32.8g. - 122, 9, 17, - .  
vag. Open, u.h. 2mm. pel. open, nip. +



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Specimen Catalogue

9 September

Barrow, Alaska

399 ad. ♀

Leucurus trimucronatus

37g. 153, 11, 9

vag. plug - u.h. 2mm, milky. scars 3/3? pel. open, rip. +

30 June

Barrow, Alaska

400 ad. ♂

Stercorarius ~~parasiticus~~ ~~longicauda~~

- 458.8g. t=9mm, fat light.

? August

Barrow, Alaska

401 ad. ♀

Stercorarius pomarinus

- 568.8g. lg. fat 2mm, fat light

2 September

Barrow, Alaska

402 ad. ?

Gavia adamsii - 12 lbs.

Spring

Barrow, Alaska

403 ad. ♂

Marmota caligata - 1380g. - 488, 115, 80, 12.

In ARL animal house. Probably from Peters Lake.

20 September

ARLIS II Ice Station, 86°07'N; 23°34'W.

-11/2

404 ad. ♂

Pygophila eburnea - 540.5g. t=7mm, fat very heavy

Collected by Ray Ipalook and Henry Genthe.

Feeding in dump - tin foil, egg shells in stomach.

20 August

Barrow, Alaska

405 ad. ♂

Mustella erminea - 305.2g. 352, 83, 45, 15

ARL Animal House.

29 August

Barrow, Alaska

406 ad. ♂

Limnodromas scolopaceus - 101.5g. t=2mm

fat mod. molt heavy. Live (?) mount.

20 August

Cape Thompson, Alaska

407 ad. ♂

Fratercula corniculata (14.0g. t=15x7mm)

fat light. live mount.

408 ad. ♂

Fratercula corniculata - 610.0g. t=10x7mm

fat moderate. Brood patches present.





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1964

# Specimen Catalogue

20 August

409 ad. ♀

Cape Thompson, Alaska

Lunda cirrhata - 850.5g. lg. fol. 2mm. fat moderate.

410 ad ♂

Lunda cirrhata - 800.4g. t = 11 x 6 mm. fat moderate

411 ad. ♂

Lunda cirrhata - 814.2g. t = 7 x 4 mm. fat moderate

SEPTEMBER

412 ad ♀

Barrow, Alaska

Lampronetta fischeri - 720.1g. fat heavy

JULY

413 juv.

Wainwright, Alaska

Lampronetta fischeri - 476.1g.

6 July

414 Imm. ♀

Barrow, Alaska

Stercorarius longicaudus - 272.0g. fat mod.

6 September

Umiat, Alaska

(1963) 415 ad. ♀

Corvus corax 1292.3g. fat moderate

Stomach - 1 Microtus oeconomus

12 September

416 3rd ♀

Barrow, Alaska

Lemmus trimucronatus - 32.1g - 133, 12, 17, -.

Pregnant - 2/1, 10mm. pel closed, nip. -

6 February

Barrow, Alaska

(1965) 417 ad ♂

Dicrostonyx groenlandicus - 38.8g - 126, 11, 18, -.

Laboratory colony - summer peltage.

3 April

Barrow, Alaska

(1965) 418 ad ♂

Dicrostonyx groenlandicus - 57.0g; 135, 12, 19, -.

Winter (white) peltage. Right eye injured.

15 August

419 ad ♂

Cape Thompson, Alaska

Uria aalge - 930.0g. t = 16 x 6 mm, fat mod.

22 March

Umiat, Alaska

-MVZ  
(1965) 420 ad ♂

Lagopus lagopus - 624.9g. fat moderate.

23 May

Barrow, Alaska

-MVZ  
1965 421 ad ♂

Calcarius lapponicus - 20.1g



Maclean  
1965

# Specimen Catalogue

23 May

## Barrow, Alaska

422 ad ♂

Mustella rixosa - 63.4g.; 190, 18, 25, 7.

April

## Anaktuvuk Pass, Alaska

423 ad ♂

Lagopus lagopus - 572.0g. head + neck molt heavy.

424 ad ♂

Lagopus lagopus - 621.4g. t = 5mm

425 ad ♂

Lagopus lagopus - 615.9g.

11 July

## Barrow, Alaska

426 ad. ♂

Calidris melanotos - 83.8g. t = 12x7mm, fat light. <sup>feeding obs. #II</sup>

13 July

## Barrow, Alaska

427 ad. ♂

Calidris alpina - 56.5g. t = 6x4mm, fat moderate  
b.p. present. heavy molt.

11 June

## Barrow, Alaska

428 ad. ♀

Calidris alpina - 63.2g. L.f. = 2mm, fat light,  
b.p. present - heavy wing molt, light body molt.

13 July

## Barrow, Alaska

429 ad ♂

Phalaropus fulicarius - 52.3g. t = 4x2mm, fat mod.

430 ad ♂

Calidris melanotos - 99.2g. t = 3x2, fat mod.

(feeding obs. II.)

431 ad ♂

Calidris melanotos - 107.4g. t = 9x4mm, fat heavy

(feeding obs. I.)

11 June

## Barrow, Alaska

432 ad ♀

Calidris melanotos - 73.0g. fat moderate, b.p. present  
egg in oviduct; ova 18, 9mm. 2 rupt. foll. feeding obs #2.

433 ad ♂

Calidris melanotos - 86.0g. t = 11x7mm, fat mod.  
feeding obs. #1. (I)!

29 June

## Barrow, Alaska

434 s-ad ♂

Mustella rixosa - 31.8g. 148, 9, 17, 8.

435 s-ad

Mustella rixosa 41.7g. 165, 14, 20, 8



Maclean  
1965

# Specimen Catalogue

3 June

Nome, Alaska (Pilgrim Hot Springs, Seward Pen)

436 ad ♂

Aythya marila - 937.5g. t = 29x13mm, fat light.

20 July

Barrow, Alaska

437 ad. ♀

Canisuris alpina - 51.6g. lg. fol. < 1mm, fat light, molt moderate, brood patches regressed.

438 ad ♂

Phalaropus fulicarius - 50.5g. t = 7x4mm, fat heavy, no molt. Brood patch well developed.

439 ad ♂

Phalaropus fulicarius - 52.4g. t = 6x3mm, fat moderate. Brood patches well developed.

25 July

Barrow, Alaska

440 ad. ♀

Canisuris melanotos - 79.0g. lg. fol. = 1mm, fat heavy. #8. b.p. regressing.

441 ad ♂

Canisuris melanotos - 106.1g. lg. fol. = 1mm, fat heavy. #3.

442 ad ♀

Canisuris melanotos - 65.6g. lg. fol. = 1mm, fat moderate. b.p. regressing. #11.

443 ad ♂

Canisuris melanotos - 125.0g. t = 2mm, fat heavy. #11.

444 ad ♀

Canisuris melanotos - 53.5g. lg. fol. = 2mm, fat moderate. b.p. well developed. #6

445 ad ♂

Canisuris alpina - 52.1g. t = 7mm, fat light. b.p. regressing. Heavy molt. #4

446 ad ♀

Pluvialis dominica - 150.0g. lg. fol. = 1mm, fat heavy. b.p. regressing. #1.

447 ad ♀

Pluvialis dominica - 157.0g. lg. fol. = 1mm, fat moderate. b.p. beginning regression. #7



Moelan  
1965

# Specimen Catalogue

28 July

Barrow, Alaska

448 ad. ♂ Pluvialis dominica - 187.0g.  $t = 4 \times 1.5$  mm,

Fat heavy, no b.p.

449 ad ♀ Pluvialis dominica - 202.8g. lg. fol. 1mm,

Fat very heavy, no b.p.

450 ad. ♀ Pluvialis dominica - 121.1g. lg. fol. 1mm,

Fat moderate. b.p. in early regression.

30 July

Barrow, Alaska

451 juv. ♂ Calidris alpina - 36.1g.  $t = 2$  mm.

Fat mod. to heavy! trapline XIII - 7.8

31 July

Barrow, Alaska

452 juv. ♂ Calidris alpina - 32.1g.  $t = 2$  mm

Fat light. trapline XIV - 9.6

29 July

Barrow, Alaska

453 ad ♂ Phalaropus fulicarius - 53.2g.  $t = 4$  mm,

Fat moderate no b.p.

454 ad ♂ Phalaropus fulicarius - 47.4g.  $t = 4$  mm, \*

Fat mod-heavy. b.p. regressed.

6 August

Barrow, Alaska

455 juv. Calidris alpina - 12.2g. no fat

10 August

Barrow, Alaska

456 imm ♂ Calidris pusillus - 20.9g.  $t = 1$  mm, fat light \*

457 imm ?

Calidris pusillus - 21.3g. fat light.

15 August

Barrow, Alaska

458 juv. ♂ Calidris alpina - 25.9g.  $t = 2$  mm, fat light

143 August

Barrow, Alaska

459 Imm ♂ Pluvialis dominica - 191.3g.  $t = 2$  mm, fat heavy  
skull ossified.





Maclean  
1965

# Specimen Catalogue

15 August

## Barrow, Alaska

- 460 Imm ♂ Calidris acuminata - 73.8g.  $t=3\text{mm}$ , fat mod., skull unossified.
- 461 Imm ♀ Calidris <sup>melanotos</sup> acuminata - 52.5g. lg. fol.  $<1\text{mm}$ , fat light. skull unossified.

17 August

## Barrow, Alaska

- 462 Imm. ♀ Calidris alpina - 49.3g. lg. fol.  $<1\text{mm}$ , fat light.

18 August

## Barrow, Alaska

- 463 Imm ♂ Limnodromus scolopaceus - 105.3g.  $t=3\text{mm}$ , fat light; skull unossified.

- 464 Imm ♂ Limnodromus scolopaceus - 105.5g.  $t=3\text{mm}$ , fat moderate; skull unossified.

20 August

## Barrow, Alaska

- 465 Imm ♀ Pelecanus dominica - 199.5g. lg. fol.  $<1\text{mm}$ , fat heavy. skull unossified.

- 466 Imm ? Phalaropus fulicarius - 40.0g. fat light; skull anast.

- 467 Imm ♀ Calidris melanotos - 63.8g. lg. fol.  $<1\text{mm}$ , fat very heavy; skull unossified.

- 468 Imm ♀ Limnodromus scolopaceus - 109.6g. lg. fol.  $<1\text{mm}$ , fat light, skull unossified.

- 469 Imm ♂ Limnodromus scolopaceus - 94.8g.  $t=2\text{mm}$ , fat light, skull unossified.

- 470 Imm ♂ Limnodromus scolopaceus - 93.7g.  $t=3\text{mm}$ , fat light, skull unossified.

- 471 Imm ♂ Limnodromus scolopaceus - 96.6g.  $t=3\text{mm}$ , fat light, skull unossified.



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1965

## Specimen Catalogue

22 August

### Barrow, Alaska

- 472 Imm ♂ Limnodromus scolopaceus - 104.6 g.  $t = 2\text{ mm}$ ,  
fat light; skull unossified. Feeding obs. #2.
- 473 Imm ♀ Limnodromus scolopaceus - 122.9 g. Lg. fol.  $< 1\text{ mm}$ ,  
fat moderate; skull unossified (but almost). #2.
- 474 Imm ♂ Limnodromus scolopaceus - 73.8 g.  $t = 2\text{ mm}$ ,  
no fat; skull unossified. Feeding obs. #2.
- 475 Imm? Phalaropus fulicarius - 41.0 g. fat light
- 476 Imm ♂ Limnodromus scolopaceus - 93.9 g.  $t = 2\text{ mm}$ ,  
fat light, skull unossified. Feeding obs. #1.
- 477 Imm ♀ Limnodromus scolopaceus - 103.4 g. Lg. fol.  $< 1\text{ mm}$ ,  
fat light, skull unossified. Feeding obs. #1.
- 478 Imm ♂ Limnodromus scolopaceus - 97.5 g.  $t = 3\text{ mm}$ ,  
fat light, skull unossified. Feeding obs. #3.

12 November

### California, Alameda Co, 0.5 miles S. of Point Isabel

- 479 ad ♂ Calidris alpina - 64.4 g.  $t = 2 \times 1\text{ mm}$ , fat moderate



Nachrean  
1966

# Specimen Catalog

1

May, 1966

POW- 1, Pitt Point, Alaska

- ✓ 480 ♀ ad. Turdus migratorius - 40.0g. lg. fol. 41mm; no fat.  
✓ 481 ♀ ad. Vermivora celata - 7.4g. lg. fol. 41mm; no fat

4 June

Barrow, Alaska

- ✓ 482 ♂ ad. Calidris alpina - 56.0g. t=11x6mm; fat mod. x

6 June

Barrow, Alaska

- 483 1<sup>st</sup> year ♀ Calidris alpina - 71.1g. lg. fol. 6mm, fat moderate. wing coverts lighter colored. Black patch incomplete. x

- 484 ad. ♀ Calidris alpina - 63.9g. lg. fol. 9mm, oviduct distended; fat moderate. x

- 485 ad. ♂ Calidris alpina - 53.9g. t=10x6mm, fat mod. x

- 486 ad. ♂ Calidris alpina - 57.7g. t=10x5mm, fat heavy

7 June

Barrow, Alaska

- ✓ 487 ad. ♂ Calidris pusillus - 26.8g. t=8x5mm, fat mod. x

9 June

Barrow, Alaska

- 488 ad. ♂ Calidris alpina - 56.2g. t=10x5mm, fat mod.

- 489 ad. ♀ Calidris alpina - 62.1g. lg. fol. 5mm, fat mod, oviduct slightly distended.

- ✓ 490 ad. ♀ Calidris alpina - 62.4g. lg. fol. 9mm, fat heavy

- 491 ad. ♀ Calidris alpina - 60.4g. lg. fol. 4mm, fat mod  
Feeding obs. 027.

11 June

Barrow, Alaska

- ✓ 492 ad. ♀ Arenaria interpres - 132.9g. ova 21, 14mm; 2 ruptured follicles; fat moderate; no brood patch. x

13 June

Barrow, Alaska

- 493 ad. ♂ Calidris bairdii - 39.5g. t=9x5mm, fat light mod. x

Specimen to Earlham College, SU 062



Machan  
1966

# Specimen Catalogue

2.

13 June

## Barrow, Alaska

494 ad. ♂

Calidris bairdii - 40.7g. t = 9x4mm, fat heavy

495 ad. ♂

Calidris bairdii - 40.0g. t = 10x4mm, fat mod.

SN 063

16 June

## Meade River Coal Mine, Alaska

496 ad ♀

Phalaropus fulicarius - 55.9g. 2 ruptured follicles, shelled egg in oviduct (time 2:00 AST),  
fat. fol. 15<sup>10mm</sup>mm. Fat light.

497 ad ♂

Phalaropus fulicarius - 48.9g, t = 13x6mm, fat heavy. brood patches present.

498 ad ♀

Phalaropus fulicarius - 61.6g. 3 ruptured follicles, shelled egg in oviduct, largest fol. 9mm. fat moderate.

✓

499 ad ♀

Phalaropus fulicarius - 67.3g. 3 ruptured follicles, shelled egg in oviduct, largest fol. 17mm. fat moderate.

500 ad ♂

Calidris pusillus - 24.8g. t = 8x4mm, fat moderate. Brood patches present.

✓

501 ad. ♂

Calidris pusillus - 26.0g. t = 7x4mm, fat moderate. Brood patches present.

17 June

## Meade River Coal Mine, Alaska

502 ad. ♂

Calidris pusillus - 24.9g. left t. damaged; right t = 6x4mm, fat moderate, brood patch present

503 ad ♂

Calidris pusillus - 23.4g. t = 8x4mm, fat lighter. brood patch incomplete.

504 ad ♂

Calidris pusillus - 23.8g. t = 8x5mm, fat moderate. Brood patches well developed.

505 ad. ♂

Calidris pusillus - 26.4g. t = 7x4mm, fat moderate +, brood patches present.





achran  
1966

# Specimen Catalog

3

506 ad ♂ Calidris pusillus - 20.6 g.  $t = 8 \times 5$  mm, far lighter.  
brood patches present.

507 ad ♀ Phalaropus fulicarius - 39.7 g. ovary regressed -  
lg. fol. 3 mm, at least 2 rupt. foll., oviover  
distended, far moderate.

508 ad ♂ Phalaropus fulicarius - 46.0 g. brood patch  
incomplete (mate of above!).  $t$  damaged,  
but appeared to be small. far heavy.

18 June

Mesoe River Coal Mine, Alaska

509 ad ♂ Calidris pusillus - 21.8 g.  $t = 7 \times 4$  mm, far  
moderate; brood patches partially developed.

510 ad ♀ Phalaropus fulicarius - 50.5 g. 3 rupt. foll.,  
egg in oviover (shell just beginning - 2130 hrs),  
largest fol. 9 mm. far lighter.

511 ad ♂ Phalaropus fulicarius - 50.3 g.  $t = 15 \times 7$  mm,  
far moderate +. Brood patches nearly complete.

22 June

Barrow, Alaska

512 emb. Calidris alpina - clutch of eggs  
egg 11.9 g - embryo 17 mm; egg 10.1 g - emb 18 mm;  
egg 11.7 g - emb 17 mm; egg 11.1 g - emb 20 mm.  
Embryo weights 1.1 - 1.2 g.

25 June

Barrow, Alaska

✓ 513 ad ♂ Calcaricus lapponicus - 27.8 g.  $t = 10 \times 7$  mm, far lighter

29 June

Barrow, Alaska

514 ad ♂ Calidris pusillus - 25.2 g.  $t = 6 \times 4$  mm, far mod.  
b.p. present. head saved in formalin.



Maclean  
1966

# Specimen Catalogue

4

1 July

## Barrow, Alaska

- 515 ad ♀ Phalaropus fulicarius - 61.0g. <sup>SN 172</sup> 4 rupt. foll;  
lar. fol. 8mm, yolk. far lighter. Head in formalin.
- 516 ad ♂ Calidris melanotos - 98.0g. t=9x6;  
far heavy; head in formalin. SN 173
- 517 ad ♂ Calidris melanotos - 96.7g. t=10x? - damaged.  
far moderate. head in formalin. SN 163.
- 518 ad ♂ Phalaropus fulicarius - 55.8g. t=9x5, far heavy.  
head in formalin. SN 167. b.p. present.

4 July

## Barrow, Alaska

- 519 ad ♂ Calidris melanotos - 89.0g. t=7x3mm,  
far moderate. gular far regressed. Head in Bouin's.
- 520 ad ♂ Calidris melanotos - 93.3g. t=10x7mm,  
far moderate. Head in Bouin's.

5 July

## Barrow, Alaska

- 521 ad ♀ Calidris melanotos - 66.7g. lg. fol. 2mm,  
far moderate. b.p. re feathering. Head in Bouin's

4 July

## Barrow, Alaska

- 522 ad ♂ Calidris melanotos - 100.0g. t=13x8mm,  
far moderate. Head in Bouin's. SN 180
- 523 ad ♂ Calidris melanotos - 94.7g. t=11x6mm,  
far moderate. Head in formalin.

8 July

## Barrow, Alaska

- 524 ad ♀ Calidris pusillus - 23.9g. lg. fol. 1mm,  
far moderate+. b.p. re feathering. head in Bouin's
- 525 ad ♂ Calidris pusillus - 24.0g. t=3x1mm, far  
moderate-. b.p. present, re feathering (?). head in Bouin's



Maclean  
1966

# Specimen Catalog

5

526 ad. ♂ Calidris pusillus - 25.1g.  $t=3 \times 1$  mm, fat moderate. b.p. present. Head in formalin.

527 ad. ♂ Calidris pusillus - 23.3g.  $t=4 \times 2$  mm, fat moderate. b.p. incomplete, refeathering. Head in formalin.

✓ 528 ad. ♂ Calidris fuscicollis - 42.7g.  $t=8 \times 5$  mm, fat light. molt on capital tract. SM 152

11 July

## Barrow, Alaska

529 ad. ♂ Calidris alpina - 54.4g.  $t=5 \times 2$  mm, fat mod. Head in Borin's. b.p. well developed.

530 ad. ♂ Calidris alpina - 48.0g.  $t=4 \times 2$  mm, fat light. NO b.p.. Head in formalin. trapline IX - 3.0.

12 July

## Barrow, Alaska

✓ 531 juv. ♂ Calidris alpina - 30.4g. trapline IX - 4.2.  $t=2 \times 1$  mm.

13 July

## Barrow, Alaska

532 juv. ♀? Calidris alpina - 30.4g. trapline IX - 5.0.

533 ad. ♀ Calidris pusillus - 29.5g. lg. fol.  $<1$  mm, fat. mod.. b.p. refeathering. Head in Borin's. trapline IX - 6.4

12 July

## Barrow, Alaska

✓ 534 juv. ? Calidris alba - 7.3g.  $<1$  day old.

13 July

## Barrow, Alaska

535 ad. ♂ Calidris bairdii - 39.8g.  $t=2 \times 1$  mm, fat mod. b.p. present. Head in Borin's. trapline IX - 9.6.

536 ad. ♂ Calidris pusillus - 22.3g.  $t=3 \times 2$  mm, fat light. b.p. present. Head in formalin. Trapline IX - 5.0



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1966

# Specimen Catalogue

6

537 ad. ♂ Calidris pusillus - 21.2g.  $t=3 \times 1$  mm, fat light,  
b.p. present; head in Bouin's. Trapline IX-9.4

✓ 538 juv. ♀? Arenaria interpres - 10.6g. trapline IX-8.2

16 July

Barrow, Alaska

539 juv. ♀ Calidris alpina - 41.4g. trapline VIII-8.0.

18 July

Barrow, Alaska

540 ad ♀ Calidris bairdii - 39.3 g. Incubating  
at nest # 13. lg. fol. 1mm, fat heavy!

b.p. present. Head in Bouin's.

541 ad ♂ Calidris bairdii - 42.4g. Incubating  
at nest #20.  $t=2 \times 1$  mm, fat heavy,  
b.p. present. Head in formalin.

542 ad. ♂ Calidris bairdii - 41.1g. Incubating  
at nest # 31.  $t=3 \times 1$  mm, fat moderate.  
b.p. present. Head in formalin.

9 July 543 ad. ♂ Calidris bairdii - 45.7g. Incubating  
nest # 13 - DDD AST.  $t=3 \times 1$ ; fat heavy.  
head in Bouin's. b.p. present.

10 July

Birniek, Barrow, Alaska

544 ad ♂ Lamprolaima fischeri - 1400g.

$t=13 \times 6$  mm, fat moderate

19 July

Barrow, Alaska

545 ad. ♀ Stercorarius longicaudus - 338.0g.

lg. fol. < 1mm; fat heavy. tipulids in esophagus.

✓ 546 juv. ♀? Calidris bairdii - 12.2g.

20 July

Barrow, Alaska

547 ad ♂ Calidris alpina - 38.6g. trapline 3B-3.4.

$t=3 \times 1$  mm, no fat. b.p. +. Head in Bouin's





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1966

# Specimen Catalogue

7

19 July

## Barrow, Alaska

548 ad. ♂

Calidris bairdii - 36.6g.  $t=3 \times 1$ mm, fat light, b.p.+ (obs #2). heavy molt.

549 ad. ♀

Calidris bairdii - 37.4g. lg. fol. 1mm, fat moderate, b.p.+ (obs. #1) heavy molt. head in formalin.

27 July

## Barrow, Alaska

550 ad. ♂

Calidris alpina - 51.1g.  $t=3 \times 1$ mm, fat light. b.p.-. Heavy molt. Head in formalin.

551 ad. ♂

Calidris alpina - 58.5g.  $t=3 \times 1$ mm, fat heavy. b.p.+ moderate molt. Head in Bouin's.

29 July

## Barrow, Alaska

552 ad. ♀

Calidris alpina - 58.5g. lg. fol. 1mm, fat light. b.p.+ head in Bouin's.

3 August

## Barrow, Alaska

553 imm. ♀

Calidris melanotos - 42.9g. fat v. light. Found on tundra w/ broken wing. Head in Bouin's.

6 August

## Barrow, Alaska

554 imm. ♀

Calidris melanotos - 63.8g. fat med. t. head in Bouin's.

555 imm. ♀

Calidris melanotos - 57.7g. fat moderate whole body less alimentary tract farther along

556 imm. ♂

Calidris melanotos - 78.5g.  $t=2 \times 1$ , fat med. whole body, as above

10 August

## Barrow, Alaska

557 imm. ♀

Calidris melanotos - 71.8g. fat heavy whole body, as above.



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1966

Specimen Catalogue

8

1 August

Barrow, Alaska

✓ 558 imm ♂ Calidris melanotos - 105.5g.  $t=1.5 \times 1$ , fat heavy

3 August

Barrow, Alaska

559 imm ♂ Calidris alpina - 52.3g.  $t=2 \times 1$ , fat light  
whole body for fat analysis.

560 imm ♂ Calidris alpina - 52.4g.  $t=1.5 \times 1$ , fat light  
whole body for fat analysis.

561 imm ♀ Calidris pusilla - 23.3g. fat moderate  
Hed in Bouin's.

562 ad ♂ Calidris alpina - 49.5g.  $t=2 \times 1$ , fat v. light  
Hed in Bouin's.

12 August

Barrow, Alaska

563 imm ♂ Calidris melanotos - 62.8g.  $t=2 \times 1$ , fat  
light. Hed in Bouin's.

15 August

Barrow, Alaska

564 imm ♂ Tryngites subruficollis - 60.1g.  $t=2 \times 1$ ,  
fat moderate.

20 August

Barrow, Alaska

565 imm ♂ Limnodromas scolopaceus - 104.5g.  $T=3 \times 1$   
bill in formalin

566 imm ♂ Limnodromas scolopaceus - 100.8g.  $t=2 \times 1$   
bill in Bouin's.

23 August

Barrow, Alaska

567 ad ♀ Calidris alpina - 54.5g. fat moderate  
hed in Bouin's. Trapline III-B: 1.0.

568 ad ♀ Calidris alpina - 61.0g. fat mod.  
Hed in Bouin's. trapline III B - 7.8.



Maclean  
1966

# Specimen Catalog

9.

569 ad ♂

Calidris alpina - 67.0g. t=2x1mm, far heavy  
whole body for fat extraction

570 imm ♀

Calidris pusillus - 21.8g. (starved 1 day)  
for moderate. Hess in Bouin's.

18 August

Barrow, Alaska

571 imm ♀

Pluvialis dominica - 153.3g. far heavy  
whole body for fat determination



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1967

Specimen catalog

1.

8 June

Barrow, Alaska

701 ♂ ad.

Calidris melanotos

11.0

cul. ln: 28.4; cul. ht: <sup>5.6</sup>~~6.5~~; cul. wid: 3.9

t = 15 mm, fat moderate

702 ♀ ad.

C. melanotos

74.9

27.6 / 5.0 / 3.8 ova to 5 mm; fat <sup>heavy</sup> moderate

703 ♀ ad.

C. melanotos

71.6

26.4 / 4.7 / 3.6 ova to 4 mm; fat <sup>heavy</sup> moderate

704 ♂ ad.

C. alba

t = 13 mm; fat heavy.

65.9

24.5 / 4.6 / 3.5

10 June

Barrow, Alaska

705 ♀ ad

C. alpinus

no b.p.

64.8

37.5 / 6.3 / <sup>5.3</sup>~~5.7~~ t = 15 mm, fat light

706 ♂ ad

C. alpinus

51.7

34.8 / 5.7 / <sup>4.3</sup>~~3.8~~ t = 10 mm, fat multiple

707 ♂ ad

Phalaropus fulicarius

46.0

23.0 / 4.2 / 5.3 t = 11 mm, fat light

708 ♂ ad

Phalaropus fulicarius

48.6

23.4 / 4.4 / 4.7 t = 13 mm, fat light

709 ♂ ad

Phalaropus fulicarius

49.1

23.9 / 4.1 / 4.4 t = 14 mm, fat light

710 ♀ ad

Phalaropus fulicarius

63.0

24.0 / 4.8 / 4.6 ova to 10 mm, fat light

711 ♀ ad

Phalaropus fulicarius - fat light.

63.0

x / 4.8 / 4.1. 4 ova. follicles approx.

712 ♂ ad

Phalaropus fulicarius - found dead

X

21.3 / 4.5 / 4.4 t = 13 mm, fat light





March  
1967

Spermophytes

2.

12 June

Barrow, Alaska

- 713 ♀ ad C. alpinus b.p. present. 14.9  
34.7/5.8/4.5 ova to 2 mm; at least 3 in.; light far.
- 714 ♂ ad C. alpinus b.p. present. 16.9  
31.4/5.8/5.2 t = 10 mm; moderate in
- 715 ♀ ad P. hololepis 28.1  
23.4/4.4/4.7 ova to 7 mm, oviduct almost fully  
developed. light far.

18 June

Barrow, Alaska

- 716 ♀ ad. C. pusillus 25.1  
18.5/4.5/3.5. ova to 2 mm, light far
- 717 ♂ ad P. hololepis 153.4  
21.9/5.5/4.2 t = 15 mm, far light.  
cystos injection.
- 718 ♀ ad C. melanotos 73.0  
26.4/5.8/4.0 ova to 5 mm, far heavy.
- 719 ♂ ad. C. melanotos 104.0  
t = 14 mm, far light.  
28.5/5.4/4.0
- 720 ♂ ad. C. melanotos 114.0  
29.0/5.6/4.5. t = 12 mm, far mod.
- 721 ♂ ad. C. melanotos 125.8  
29.7/6.0/5.7. t = 13 mm, far heavy.

17 June

Barrow, Alaska

- 722 ♂ ad. C. melanotos 108.0  
20.5/5.7/ --. t = 13 mm, far light.
- 723 ♀ ad P. hololepis 68.7  
24.3/4.4/4.8. egg in oviduct; ova to 15 mm + 2 rupt.



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1967

Specimen catalog

3.

20 June

Barrow, Alaska

724 ♂ ad.

Calcareous lapponicus

28.8

t = 8 mm, fat light. Live mount for field use.

725 ♀ ad.

Calidris melanotos. fat moderate. 64.2

ov. to 4 mm, b.p. Pitting + vascularization; ov. oviducts r.p.

26.2 / 4.5 / 4.1

21 June

Barrow, Alaska

726 ♂ ad.

C. melanotos

92.7

30.5 / 5.7 / 4.4 . t = 13 mm, fat moderate

727 ♂ ad.

C. melanotos

90.0

28.1 / 5.7 / 4.5 . t = 11 mm, fat light

728 ♂ ad.

C. melanotos

105.5

30.0 / 6.0 / 4.7 t = 12 mm, fat lighter.

729 ♂ ad.

C. melanotos

83.7

29.8 / 5.4 / 4.0

730 ♂ ad.

C. melanotos

89.2

30.1 / 5.5 / 4.5

731 ♂ ad.

C. alpina - trapline II - 8.8

10.5

34.7 / 5.8 / 4.7 . t = 10 mm, fat. mod. b.p. present

732 ♂ ad.

Phalaropus fulicarius - trapline II - 8.0

55.1

21.7 / 4.2 / 4.4

24 June

Barrow, Alaska

733 ♀ ad.

Pluvialis dominica

175.0

22.0 / 5.2 / 4.7. Ovs to 12 mm + 4 r.p. full.

Oviducts enlarged. b.p. present.

734 ♂ ad.

Calidris melanotos

92.7

30.5 / 6.0 / 4.8 . t = 11 mm, fat moderate



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1967

Specimen Catalog

4.

24 June] 735 ♂ ad

Calidris melanotos

98.9

28.4/5.6/4.8 . t=10 mm; fat heavy

736 ♂ ad.

C. melanotos

108.7

30.0/5.6/4.4 t=13 mm; fat moderate

737 ♀ ad

C. melanotos

93.0

28.6/5.6/4.4

5 June

Barrow, Alaska

738 ♂ ad.

C. melanotos

99.5

30.0/5.5/4.6 t=12 mm; fat heavy.

739 ♂ ad.

C. melanotos

103.1

28.0 - malform. t=13 mm, fat heavy.

740 ♀ ad

Phalaropus fulicarius, fat light. 58.2

22.4/4.2/- . Ova to 3 mm, oviduct enlarged

741 ♀ ad.

Ph. fulicarius

67.7

23.9/4.7/4.4 . Egg in oviduct, 4 rays,  
follicles. fat light

26 June

Barrow, Alaska

742 ♀ ad.

Calidris bairdii - I - 8.2 .

44.4

fat mod.  
24.0/3.7/3.2 . Egg to 4 mm; inc. patches

28 June

Barrow, Alaska

743 ♀ ad.

Pluvialis dominica

182.6

23.2/6.0/4.9. Ova 15, 9, ... b.p. present, but  
not vascularized. fat moderate.

744 ♀ ad.

Pluvialis dominica

167.2

21.4/5.7/4.7. Ova to 4 mm; b.p. -; fat mod

745 ♂ ad.

Calidris pusillus

27.4

17.6/4.3/3.3 . t=7 mm, fat mod. t.



Machin  
1967

Specimen catalog

5.

30 June

Barrow, Alaska

746 ♀ ad.

Pluvialis dominica

167.4<sup>x</sup>

20.9/6.0/6.1 as prox. end of tarsus.

ova to 3mm, fat moderate

747 ♀ ad.

Pl. dominica

119.6

21.9/7.0/6.1 . Ova to 6mm + coll. foll.

b.p. present. light fat.

748 ♂ ad.

Catharus melanotos

30.0/-/-

749 ♀ ad.

C. melanotos

25.0/5.4/4.0

6 July

Barrow, Alaska

750 ♀ ad.

Pluvialis dominica

176.2<sup>x</sup>

foll. to 2mm, fat heavy, molt heavy

14 July

Barrow, Alaska

751 ♀ ad.

Pluvialis dominica

202.4<sup>x</sup>

23.1/6.1/5.8 . fat very heavy;

ova to 1mm; heavy body molt. nub.p.

Stomach contents = 2.1 g.

Saved for fat extraction.

752 ♂ ad.

Pluvialis dominica

176.4<sup>x</sup>

23.0/6.6/6.4 . t = 7x2mm, fat moderate,

no b.p.; heavy molt

stomach contents = 2.6 g.

Saved for fat extraction.

753 ♀ ad

Pluvialis dominica

22.8/6.7/5.4 185.3<sup>x</sup>

follicles to 1.5mm, fat moderate, no b.p.

heavy molt. Stomach = 2.2 g. for fat exn.





Nachson  
1967

Specimen Catalog

6.

[14 July]

754 ♀ ad

Calidris alpina

57.0

38.0/6.5/5.0. lg. fol. < 1mm, far light.

No b.p. present. Beginning body molt

17 July

755 ♂ ad

Calidris pusillus

25.9

17.9/4.3/3.8. (FAP skin)

756 ♂ ad

Calidris fuscicollis

41.6

23.1/4.8/2.8. (FAP skin)

18 July

757 ♀ ad.

Barrow, Alaska

Pluvialis dominica

170.6

22.0/6.1/5.1. lg. fol. < 1mm, far mod.

b.p. is feathering - body molt.

758 ♀ ad.

Calidris alpina

59.8

33.1/5.3/- . 0.4 g. stomach contents.

lg. fol. = 1mm, far light. Molt beginning -

b.p. is feathering. Saved for fat extraction

759 ♂ ad

Calidris alpina

55.3

32.8/5.7/- . t = 3mm, far light.

Early molt. No b.p. Stomach 0.2 g.

760 ♀ ad.

Calidris alpina

58.3

33.2/6.0/4.7. lg. fol. 1mm, far light

b.p. present. v. early molt. Stomach

0.1 g. Saved for fat extraction.

20 July

761 1<sup>st</sup> yr. ♀

Barrow, Alaska

Nyctea scandiaca

5 Lb. 2 oz.

Shot by James Ahgeak. Birnirk

lg. fol. 1mm, far moderate



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1967

Specimen Catalog

7.

26 July

Barrow, Alaska

762 ♀ ad

Calidris melanotos

66.0

27.8/5.7/4.4 . fol. to 1mm, heavy molt.  
light fat. b.p. present

763 ♀ ad.

C. melanotos

60.5

26.6/5.5/4.3 . fol. to 1mm, heavy body molt.  
moderate fat. b.p. present.

764 ♀ ad.

C. melanotos . ♂

74.5

26.0/5.8/4.3 . fol. to 1mm, mod. molt.  
heavy fat . b.p. present.

765 ♀ ad.

C. melanotos

72.0

29.6/5.4/— . fol. to 1mm, heavy fat.  
no molt. b.p. present.

27 July

Barrow, Alaska

766 ♀ ad.

Calidris alpina . t.w.c. #27 feeding. 55.0

36.4/6.2/4.7 . fol. to 1mm; v. light fat.  
b.p. present. heavy molt-body & primaries.

767 ♀ ad

C. melanotos . t.w.c. #26 .

64.1

27.0/—/— . heavy fat; heavy molt.  
b.p. present. fol. to 1.5 mm .

768 ♀ ad

C. alpina

60.0

35.1/5.3/4.1 . light fat. molt body + prim.  
fol. to 1mm . b.p. present. t.w.c. #30.

769 ♂ ad

C. alpina

light fat. molt body &

34.3/5.9/4.2 .

primaries.

53.0

t.w.c. #28 .

T = 3.5



Nachrean  
1967

# Specimen Catalog

8.

28 July

## Barrow, Alaska

770 ♀ ad

Colinus alpinus T.W.C. feeding 57.0  
obs. # 35. 37.5/5.7/4.0 fat light.  
molt - light on body; heavy on primaries.  
fol. to 1 mm. b.p. present.

771 ♂ ad

Pluvialis dominica - T.W.C. # 32. 175.0  
22.8/5.9/4.7. fat heavy, body molt heavy.  
no b.p. t = 5.0 mm.

772 ♀ ad

Pl. dominica T.W.C. # 33 190.6  
23.6/5.9/5.2 fol. to 1.5 mm, fat heavy.  
no b.p. molt heavy, advanced.

773 ♀ ad

Pl. dominica T.W.C. # 34 182.2  
22.3/6.3/5.3. b.p. present. fat  
moderate. fol. to 1 mm, molt mod.

20 July

## Barrow, Alaska

774 ? juv.

C. alpinus - trapline IV-B:6.0 31.4

30 July

## Barrow, Alaska

775 ♂ imm.

C. pusillus 23.7  
16.7/4.3/3.5 t = 2 mm. fat light

776 ♂ imm

C. pusillus 23.7  
16.0 / - / - t = 1 mm, fat moderate.

777 ♂<sup>1</sup> imm.

C. pusillus t = 2 mm, 22.3  
16.1/4.3/4.0. fat moderate

778 ♀ imm.

C. pusillus fat moderate. 26.1  
17.7/4.4/3.6



Maclean  
1967

# Specimen Catalog

9.

30 July 779 ♀ imm.

Calidris pusillus

27.3

18.5/4.2/— . fat moderate.

25 July

780 ♂ imm.

Birnirk - N.E. of Barrow, Alaska

C. ~~alpina~~ pusillus

23.0

banded 75-26632 t=2mm, fat moderate

28 July

Barrow, Alaska

781 ♀ ad.

Calidris melanotos

61.1

27.7/5.3/4.1 fat. to 1mm, moderate fat

b.p. present. heavy body molt.

782 ♀ ad

C. melanotos

70.9

28.3/5.4/4.1 fat. to 1.5mm, heavy fat,  
heavy body molt. b.p. present.

783 ♀ ad

C. melanotos

76.2

26.5/5.0/3.8 . fat. to 1mm, heavy fat  
heavy body molt, b.p. present.

784 ♀ ad

C. melanotos

68.1

27.6/5.1/4.0 fat. to 1mm, moderate fat.  
early body molt. b.p. present.

785 ♀ ad.

C. melanotos

71.1

28.1/5.2/3.7 . fat. to 1mm, heavy fat.  
early body molt. b.p. present.

31 July

Barrow, Alaska

786 ♀ ad.

Calidris alpina

54.9

34.0/5.1/4.6 . fat. to 1mm, light fat.  
early body molt. No b.p.

787 ♀ ad

C. alpina

57.7

33.0/5.2/4.8 . fat to 1mm, light fat.  
heavy molt, no b.p. fat fat extruded.





Maclean  
1967

# Specimen Catalog

10.

31 July	788	♀ ad	<u>Calidris alpina</u>	58.0
			34.9/5.3/4.6 . fat. to 1mm, fat lighter. no b.p. heavy molt.	
	789	♂ ad	<u>C. alpina</u>	54.7
			32.3/5.0/4.6 t = 3mm, fat light, no b.p. early molt.	
	790	♂ ad	<u>C. alpina</u>	52.7
			31.2/4.6/4.7 t = 3mm, light fat, early molt. b.p. present	
3 August			<u>Barrow, Alaska</u>	
	791	♀ ad	<u>Calidris melanotos</u>	72.8
			27.6/5.0/4.0. fat. to 1mm, fat moderate, early molt. b.p. incomplete.	
	792	♀ ad	<u>C. melanotos</u>	60.0
			28.6/5.6/4.0. fat. to 1mm, fat moderate molting. b.p. present.	
31 July			<u>Disrinsk - N.E. of Barrow, Alaska</u>	
	793	♂ imm	<u>Rissa tridactyla</u>	300.0
			t = 4mm, fat light. stomach empty.	
5 August			<u>Barrow, Alaska</u>	
	794	♂ imm.	<u>Calidris pusillus</u>	29.4
			16.0/4.8/3.6. t = 2mm, fat heavy	
	795	? imm.	<u>C. pusillus</u>	25.9
			17.4/4.3/3.4. lighter fat. down around bill.	
	796	♂ imm.	<u>C. pusillus</u>	27.9
			16.4/3.8/3.2 t = 2mm, fat moderate	
	797	♀ imm	<u>C. pusillus</u>	27.3
			18.0/4.0/3.6 . fat moderate	



Maclean  
1967

# Specimen Catalog

11.

5 August	798	♀ imm.	<u>Calidris pusillus</u>	26.1 g.
			23.6 / 4.6 / 3.6 . far lighter.	
	799	♀ ad.	<u>C. alpina</u>	54.3
			31.8 / 5.9 / -- . Out to 1mm, lighter far.	
			heavy molt. No b.p.	
	800	♂ ad.	<u>C. alpina</u>	62.1
			34.5 / 5.8 / 4.5 . t = 3mm, lighter far.	
			v. heavy molt. no. b.p.	
	801	♀ ad.	<u>C. melanotos</u>	72.8
			25.9 / 5.1 / 4.0 . tp. fol > 1mm, far heavy.	
			heavy molt. b.p. present.	
	802	♂ imm.	<u>C. melanotos</u>	69.2
			25.3 / 5.0 / 4.1 . t = 3mm, far lighter.	
	803	♂ ad.	<u>C. alpina</u>	59.8
			35.0 / 5.8 / 4.9 . t = 2mm, v. lighter far.	
			molt advanced. no b.p.	
	804	♂ ad.	<u>C. alpina</u>	59.9
			32.7 / 6.0 / 5.0 . t = 3mm, lighter far.	
			molt. b.p. present.	
	805	♀ ad.	<u>Pluvialis dominica</u>	180.0
			22.0 / 6.0 / 5.0 . fol. to 1mm, heavy far	
			heavy molt. b.p. present.	
9 August			<u>Barrow, Alaska</u>	
	806	♂ ad.	<u>Calidris alpina</u>	54.1
			34.3 / 5.7 / 4.8 . t = 2mm, far v. lighter	
			heavy molt. do b.p. present	
	807	♂ ad.	<u>C. alpina</u>	55.4
			33.3 / 5.9 / -- . t = 2mm, lighter far, any molt.	



Moore  
1967

# Specimen Catalog

12.

808 ♀ ad.

C. alpina

62.6

35.3/5.8/4.9 foll. to 1mm, far lighter,  
heavy molt.

1 August

Barrow, Alaska

809 ♂ ad

Calionis alpina

59.5

34.1/5.9/4.4 t=3mm. light far. heavy molt.

810 ♂ imm.

Phalaropus fulicarius

46.6

19.6/4.3/3.9 t=3mm. far lighter

811 ♂ imm

Phalaropus fulicarius

47.4

21.6/4.1/4.1 t=4mm, moderate far.

2 August

Birnie - 7 mi NE. of Barrow, Alaska

812 ♀? 1mm

Micropalama himantopus

70.4<sup>x</sup>

far heavy

813 ♂ ad

Calionis alpina

53.2

33.3/6.2/5.7 . t=2mm, far lighter, heavy molt.

814 ♂ imm.

C. pusilla

22.3

20.3/-/- . t=2mm, far lighter

14 August

Barrow, Alaska

815 ♂ ad

Calionis alpina

54.1

32.7/5.6/5.0 t=3mm, far lighter, molt heavy and  
early. No b.p.

816 ♀ ad

C. alpina

65.2

32.6/5.6/5.3 ova to 1mm, far moderate.

817 ♂ ad

C. alpina

54.2

33.7/5.7/5.0 . t=3mm, far lighter

818 [♂ ad]

C. alpina

57.4

35.4/5.8/5.0 . t=3mm, far lighter,  
heavy molt.



Maclean  
1967

# Specimen Catalog

13.

14 July	819	♂ ad.	<u>C. alpina</u>	64.7
			31.8/5.4/4.8 t=3mm, far heavy, <del>light</del> heavy.	
	820	imm.	<u>Phalaropus fulicarius</u>	48.7
			23.0/3.9/4.5 light far.	
	821	"	<u>Ph. fulicarius</u>	44.0
			21.5/4.0/4.0 light far.	
16 August			<u>Barrow, Alaska</u>	
	822	♂ ad	<u>Calidris alpina</u>	60.4
			31.2/5.4/4.8 t=3mm, far light	
	823	♀ imm.	<u>C. melanotos</u>	65.6
			25.8/5.4/4.3 far moderate	
7 August			<u>Barrow, Alaska</u>	
	824	♀ ad.	<u>Gavia aramsii</u>	10.5 lbs.
			found shot near Birniek. tot to 4mm.	
18 August			<u>Barrow, Alaska</u>	
	825	♀ ad.	<u>Calidris alpina</u>	62.1
			34.5/5.4/4.4 tot to 1mm, far moderate.	
	826	♂ (1) ad	<u>C. alpina</u>	67.7
			33.2/6.0/5.0 t=2.5mm, light far.	
308	827	♂ imm.	<u>C. melanotos</u>	74.2
			30.5/6.3/4.6 t=2mm, far light +.	
	828	imm.	<u>Phalaropus fulicarius</u>	49.7
			22.0/3.8/4.0 trapline II - 9.4	
19 August			<u>Barrow, Alaska</u>	
	829	♀ ad.	<u>Calidris alpina</u> III A - 3.2	60.8
			36.0/5.6/4.5 tot. <del>tot</del> 1mm, far moderate	





MacLean  
1967

Specimen Catalog

14.

20 August

Barrow, Alaska

830 ♀ imm.

Pluvialis dominica

150.6

22.8/5.5/5.0 tal < 1mm, far moderate

831 ♂ imm.

Limnodromus scolopaceus

102.2

60.5/7.6/5.4 t = 5x1mm, far light

832 ? imm.

Calidris alpina

56.2

32.8/5.8/4.8 far lighter

833 ♂ imm.

C. melanotos

75.5

27.9/5.2/4.3 t = 2mm, far moderate.

834 ♀ imm.

C. melanotos

66.5

27.0/5.5/4.0 far heavy.

21 August

Barrow, Alaska

835 ♀ imm.

Pluvialis dominica

176.7

23.4/6.6/5.4 far v. heavy

836 ♂ imm

Limnodromus scolopaceus

108.1

56.0/7.0/5.9 far lighter. t = 3mm

837 ♀ imm

Limnodromus scolopaceus

109.3

70.8/7.1/6.0 far lighter. tal < 1mm

22 August

Barrow, Alaska

838 ♂ imm.

Limnodromus scolopaceus

100.6

59.3/7.3/5.8 t = 3mm, far light

839 ♂ imm

Pluvialis dominica

191.7

23.4/6.5/5.8 t = 2mm, very heavy far

840 ♀ ? ad.

Calidris alpina

63.4

32.8/5.5/4.5 moderate far, heavy neck.

841 ♂ ad

C. alpina

63.7

32.6/5.8/4.8 t = 3mm, moderate far



Maclean  
1967

Specimen Catalog

Aug 1	842	♂ ad.	<u>Calidris alpina</u>	65.5
			34.3/6.1/4.8 t=2mm, moderate fat	
3 August			<u>Barrow, Alaska</u>	
	843	♀ imm.	<u>Calidris alpina</u>	71.4
			37.7/--/-- fat heavy	
	844	♀ imm.	<u>C. alpina</u>	66.7
			36.5/6.0/4.8 fat moderate	
	845	♀ imm.	<u>Limnodromas scolopaceus</u>	113.0
			65.3/1.8/5.7 light fat.	
4 August			<u>Barrow, Alaska</u>	
	846	♂ imm.	<u>Calidris melanotos</u>	58.0
			29.1/5.8/6.2 t=3mm, heavy fat.	
5 August			<u>Barrow, Alaska</u>	
	847	♀ imm.	<u>Calidris melanotos</u>	71.8
			28.0/5.4/4.1 fat heavy.	
6 August			<u>Barrow, Alaska</u>	
	848	♀ imm.	<u>Pluvialis dominica</u>	107.7
			22.4/5.8/5.3 fat very heavy.	
27 August			<u>Barrow, Alaska</u>	
	849	♀ ad.	<u>Calidris melanotos</u>	72.1
			27.5/5.5/4.3. ova to 1mm, fat heavy	
	850	♀ imm.	<u>C. melanotos</u>	47.2
			26.1/5.2/4.5 v. light fat.	



Maclean  
1967

Specimen Catalog

16.

6 August

Umiat, Alaska

( Collected in mouse traps by C. M. White )

802 ♀ sa Clethrionomys rutilus 122-26-17-12 18.7g.

803 ♂ Clethrionomys rutilus 115-26-19-11 18.0g.

Prepared by D.L. Beaver

804 ♂ ad. Passerella iliaca t=2mm, fat light, 39.0g.  
heavy molt.



Lachesn  
1968

# Specimen catalog

1 June

## Barrow, Alaska

860 ♂ ad Calidris melanotos 85.9g.

27.7/5.7/4.3 . lighter fat; t=14x8mm.

861 ♀ ad Calidris alpina 60.3

39.0/6.2/5.3 . lighter fat; ovato 2mm

862 ♀ ad C. alpina 64.2

37.8/6.0/5.0 . lighter fat; ova to 3mm

863 ♂ ad C. alpina 52.7

32.8/5.5/- . lighter fat; t=10x6mm

3 June

## Barrow, Alaska

864 ♂ ad C. melanotos 101.6

27.9/6.2/4.5 . mod. fat; t=14x8mm.

865 ♂ ad C. melanotos 100.0

28.7/5.6/4.2 . lighter fat; t=12x7mm

866 ♀ ad. C. alpina 63.0

31.7/5.5/5.0 . Heavy fat; ova to 4mm. nob.p.

867 ♀ ad C. alpina 67.8

33.7/6.3/5.0 lighter fat; ovato 5 + 2 rupt. follics.

868 C. alpina 56.0

(no bill measurements) . lighter fat; gonads shot.

4 June

## Barrow, Alaska

869 ♂ ad C. melanotos 97.7

30.0/5.6/4.3 . lighter fat; t=14x8mm.

870 ♂ ad C. melanotos 93.4

29.0/5.3/4.3 . mod. fat; t=14x8mm.

871 ♂ ad. C. alpina t=9mm, no fat 34.0/6.0/4.3 48.5

872 ♀ ad C. alpina lt. fat; 1 coll. foll, 68.3

37.5/5.8/4.8 2<sup>nd</sup> just ruptured - ovum intact.





Maclean  
1968

# Specimen record

June)	873	♀ 1 <sup>st</sup> year	<u>C. alpina</u>	- lt. fat, ova to 4.5mm	57.8g
			35.0/6.0/5.3		
	874	♂ ad.	<u>C. alpina</u>		59.3g
			34.6/6.0/4.7	• light fat; t=14x9mm	
	875	♀ ad.	<u>C. alpina</u>		63.3
			37.1/6.0/5.0	• no b.p. • light fat; ova to 10mm.	
5 June			<u>Barrow, Alaska</u>		
	876	♀ ad.	<u>C. melanotos</u>	• mod. fat; ova to 4mm.	70.6
			26.8/5.3/4.4	(SM 022 feeding obs.)	
June			<u>Barrow, Alaska</u>		
	877	♀ ad.	<u>C. melanotos</u>		64.3
			25.3/5.2/4.0	• mod. fat; ova to 7mm.	
	878	♂ ad.	<u>C. melanotos</u>		89.7
			29.5/5.6/4.2	• mod. fat; t=13x8mm.	
	879	♀ ad.	<u>C. alpina</u>		59.0
			34.2/5.9/4.8	• light fat; ova to 4mm. no b.p.	
10 June			<u>Barrow, Alaska</u>		
	880	♂ ad.	<u>C. melanotos</u>	(SM 052)	90.5
			28.1/5.4/4.8	• mod. fat; t=10x5mm.	
	881	♂ ad.	<u>C. melanotos</u>	(SM 054)	94.4
			28.5/-/-	• Heavy fat; t=14x8mm	
12 June			<u>Barrow, Alaska</u>		
	882	♀ ad	<u>C. alpina</u>	(nest #2) not injected-	60.6
			33.9/5.4/4.7	• v. light fat; ova to 9mm + 4 rupt. follic.	
	883	♀ ad.	<u>C. alpina</u>	(nest #1)	63.5
			40.5/6.4/5.4	• light fat; ova to 5mm + 4 rupt. follic.	
	884	♀ ad.	<u>C. alpina</u>	(nest #3)	68.0
			36.1/6.0/5.0	• ova to 9mm + 4 rupt. follic; v. light fat	



Laake  
1968

# Specimen record

2 June	885 ♂ ad.	paired	<u>Calidris melanotos</u>	100.0g.
			31.8/5.6/4.5 . mod. fat; t=14x8mm	
	886 ♀ ad.		<u>C. melanotos</u>	69.8
			28.8/5.2/4.3 . Heavy fat; ova to 5mm.	
	887 ♂ ad.		<u>C. melanotos</u>	88.2
			28.0/5.5/4.7 . v. light fat; t=10x6mm.	
4 June			<u>Barrow, Alaska</u>	
	888 ♀ ad.		<u>C. pusillus</u> (with clutch of 4 eggs)	28.3
			19.0/4.4/3.8 . Ova to 3mm. + 4 recently rupt. follics. moderate fat.	
5 June			<u>Barrow, Alaska</u>	
	889 ♂ ad.		<u>C. melanotos</u>	98.6
			28.8/-/- . mod. fat; t=12x8mm.	
	890 ♂ ad.	together	<u>C. melanotos</u>	99.7
			28.8/-/- . mod. fat; t=11x7mm	
	891 ♀ ad.		<u>C. melanotos</u>	78.1
			27.6/-/- . Heavy fat; ova to 5mm.	
	892 ♀ ad.		<u>C. melanotos</u>	71.2
			25.6/-/- . Heavy fat; ova? - not > 5mm.	
	893 ♀ ad.		<u>C. melanotos</u>	69.1
			25.8/-/- . Heavy fat; ova to 5mm	
18 June			<u>Barrow, Alaska</u>	
	894 ♂ ad.		<u>C. bairdii</u>	38.4
			22.1/5.0/3.7 . mod. fat; t=10x6mm. no b.p.	
	895 ♂ ad.		<u>C. bairdii</u>	37.4
			22.2/4.4/3.5 . t=10mm; light fat	
19 June			<u>Barrow, Alaska</u>	
	896 ♂ ad.		<u>C. melanotos</u> (SN 077 from obs.)	101.8
			22.4/5.6/4.9 . light fat; t=12x7mm.	



achese  
1968

# Specimen record

June)	897	♂ ad.	<u>C. melanotos</u>	92.2g
			29.5/5.7/4.1 . lighter fat; t=13x6mm.	
June			<u>Barrow, Alaska</u>	
	898	♀ ad presumed pair- w/ 4 eggs.	<u>C. bairdii</u> lighter fat.	44.0
	899	♂ ad	23.3/4.7/3.8 (shot) ova to 5mm + 4 rupt. follics.	
	<del>899</del>		<u>C. bairdii</u>	41.8
			21.8/4.3/3.8 . t=8x4mm; mod. fat	
June			<u>Barrow, Alaska</u>	
	900	♀ ad.	<u>C. melanotos</u> - nest #1 - w/ 4 eggs.	73.2
			Heavy fat; ova to 4mm.	
	901	♀ ad	<u>C. melanotos</u> - nest #2 - w/ 4 eggs.	67.6
			Heavy fat; ova to 3mm.	
	902	♂ ad	<u>C. melanotos</u> - assoc. w/ ♀ 900 and 901	101.9
			v. lighter fat; t=12x7mm	
Hatched by III A-B.	903	♂ ad.	<u>C. melanotos</u>	103.5
			29.4/5.3/4.7 . lighter fat; t=12x8mm.	
	904	♂ ad.	<u>C. melanotos</u>	98.6
			28.0/5.3/4.0 . light fat; t=12x8mm.	
	905	♂ [ad.]	<u>C. melanotos</u>	93.5
			27.4/5.2/4.2 v. lighter fat; t=15x9mm.	
Rock - Voth	906	[♂]	<u>C. melanotos</u>	86.5
			28.4/5.3/4.3 . lighter fat; t=9x6mm.	
Err. by gasline R.	907	♂ ad.	<u>C. melanotos</u>	106.9
			27.7/5.4/4.7 v. lighter fat; t=14x7mm	
Hatched - evening.	908	♂ ad.	<u>C. melanotos</u>	106.6
			30.0/5.2/4.5 . lighter fat; t=12x7mm.	
	909	♂ ad.	<u>C. melanotos</u>	101.6
			31.7/5.4/4.3 v. lighter fat; t=15x9mm	



Nachson  
1968

# Specimen record

23 June

## Barrow, Alaska

terr. w/ ♀ by X	910 ♂ ad.	<u>Calidris melanotos</u>	107.7g
		28.3/5.6/4.3 . v.l. fat; t = 12x7mm.	
m lock	911 ♂	<u>C. melanotos</u>	98.7
		29.0/5.5/4.6 . mod. fat; t = 15x8mm.	
	912 ♂	<u>C. melanotos</u>	80.5
		26.3/-/- lighter fat; t = 11x5mm	
	913 ♀ ad.	<u>C. melanotos</u> trapline I: 4.8 . mod. fat.	75.1
		27.9/5.1/4.2 fresh brood patch. ova 14, 7, 7mm + 2 rupt. foll.	
	914 ♀ ad.	<u>C. alpina</u> trapline II: 9.4 not injected	70A
		39.7/-/- well dev. b.p. egg in oviduct + 4 rupt. <del>3</del> v.l. fat	
		remaining ova to 6 mm.	

22 June

## Barrow, Alaska

915 ♀ ad.	<u>Perisoreus canadensis</u>	ova minute; fat v. light	70.6
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24 June

## Barrow, Alaska

	916 ♀ ad.	<u>Calidris alpina</u> trapline X: 9.2	63.5
		33.4/5.6/4.9 . 2 rupt. folls; ova 12, 5mm. v. light fat.	
	917 ♂ ad.	<u>C. melanotos</u> trapline	80.0
		28.3/5.5/4.3 . no fat; t = 11x7mm.	
territorial by gasline	918 ♂ ad.	<u>C. melanotos</u> -	97.6
		28.0/-/- . lighter fat; t = 12x8mm.	
	919 ♀ ad.	<u>C. alpina</u> trapline I: 4.2 no body fat.	58.5
		36.0/5.7/4.5 b.p. present, fresh. ova 17, 10, 5, 5mm	

26 June

## Barrow, Alaska

	920 ♀ ad.	<u>C. alpina</u> trapline II - 9.6	59.5
		34.4/5.9/4.8 . mod. fat; ova to 3mm.	

25 June

## Barrow, Alaska

	921 ♂ ad.	<u>Acanthis flammea</u> t = 7x6mm, v.l. fat	13.7g
	922	<u>Plectrophenax nivalis</u> - just hatched	2.8





Machean  
1968

# Specimen record

27 June

## Barrow, Alaska

u. light fat;  
t = 7x4mm.

923 ♂ ad.

Calidris alpina

trapline III B: 0.0, 0.2, or 0.4 493g

30.7/5.1/4.6

b.p. not active; heavy molt.

28

June  
~~May~~

## Barrow, Alaska

924 ♀ ad

C. alpina

trapline III B-2.0 no fat. 70.0

2 rupt. follicles; ova 15, 7mm.

36.8/5.3/4.2

b.p. not vascular. 21mm. ovum in oviduct

(note: bird drowned. May be heavy w/ water.)

924 ♂ ad.

C. bairdii

wire kill

21.4/-/- . t = 10x6, no b.p.; moderate fat

29 June

## Barrow, Alaska

925 ad.

Pluvialis dominica

180.4

22.7/5.8/4.2

b.p. re feathering.

926 ♂

C. melanotos

935

28.3/5.0/4.2 . Heavy fat; t = 9x5mm.

927 ♂ ad.

C. bairdii

- found dead

22.4/-/- .

t = 8mm, fat light; b.p. present.

30 June

## Barrow, Alaska

928 ♂ ad

C. melanotos

1053

30.3/5.9/4.7

light fat; t = 11x7mm.

929 ♂ ad

C. melanotos

94.7

30.4/5.8/4.2

mod. fat; t = 10x6mm.

1 July

## Barrow, Alaska

930 ♂ ad

C. melanotos

not injected - 107.7

30.0/5.5/4.1

Heavy molt. v. Heavy fat; t = 5x3mm.

931 ad.

Pluvialis dominica

not injected

163.5

23.4/5.3/4.3

b.p. not vascular

29 June

## Barrow, Alaska

932 ♀

Phyloscopus borealis

ova < 1mm.



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# Specimen record

2 July

## Barrow, Alaska

- 933 ♀ ad. Calidris pusillus. Heavy fat; ova to 1mm. 31.7g.  
17.9/4.2/3.5 b.p. active - incubating; heavy molt.  
934 ♂ ad. C. pusillus t = 5mm; Heavy fat. 27.6  
17.9/4.0/3.5 no b.p.; heavy molt  
935 ♀? ad. C. pusillus ova < 1mm; mod. fat 28.9  
19.1/4.4/3.5 b.p. active, <sup>Heavy</sup> early molt stage.  
936 ♀ ad. C. bairdii. Heavy fat; ova to 1mm. 50.4  
22.8/4.3/3.4 b.p. present; molt ~~beginning~~, heavy

3 July

## Barrow, Alaska

- ad  
18  
taken  
today-  
937 ♂ ad. C. melanotos 96.5  
28.1/5.0/4.0 no molt. mod. fat; t = 13x6mm.  
938 ♂ ad. C. melanotos lighter fat; t = 10x5mm 92.1  
27.9/5.5/4.7 molt beginning - pin feathers  
939 ♂ ad. C. melanotos. mod. fat; t = 10x6mm 96.5  
26.9/4.9/4.0 molt just beginning - pin feathers.  
940 ♀ ad. C. melanotos. lighter fat; ova? - but small 58.9  
27.2/4.8/3.9 b.p. active; no molt  
941 ♂ ad. C. melanotos Heavy fat; t = 11x6mm. 107.3  
29.7/5.4/4.3 molt: pin feathers to 1mm. long.  
942 ♀ ad. C. alpina. ova to 2mm; lighter fat. 60.2  
34.8/5.6/4.5 b.p. active; primary molt.  
943 ♂ ad. C. melanotos Heavy fat; t = 6x3mm. 104.4  
28.8/4.8/4.0 early molt: 1-2mm out of sheath.

8 July

## Barrow, Alaska

- at flock. 944 ♂ ad. C. melanotos 97.0  
29.5/5.3/4.2 early molt: pin feathers to 3mm  
out of sheath. mod. fat; t = 6x4mm.



Maclean  
1968

Specimen record

3 July)	945 ♂ ad.	<u>Calidris melanotos</u>	92.2g.
		39.6/5.5/4.6 Heavy body molt. mod. fat; t=5x3mm	
	946 ♂ ad.	<u>C. melanotos</u>	92.5
		30.5/5.3/4.2 Advanced body molt. Heavy fat; t=5x2mm	
	947 ♂ ad.	<u>C. melanotos</u> mod. fat; t=6x3mm	91.8
		28.5/5.4/4.3 Early body molt - pin feathers & beyond.	
	948 ♂ ad.	<u>C. melanotos</u> mod. fat; t=6x3mm	94.4
		26.6/5.3/4.1 Heavy body molt - out of sheaths.	
	949 ♀ ad.	<u>C. melanotos</u> mod. fat; ova to 3mm.	63.2
		26.5/4.8/4.2 Well adv. b.p.; no molt.	
July		<u>Barrow, Alaska</u>	
	950 ♀ ad.	<u>C. melanotos</u> not injected	70.5
		27.4/5.2/4.0. Heavy fat; ova < 1mm. Heavy molt.	
July		<u>Iktroavik Lake, 5 mi. So. of Barrow, Alaska</u>	
	951 ♂ ad.	<u>C. melanotos</u> Heavy fat; t=4x2mm.	102.2
		29.0/-/- molt advanced - nearly complete.	
	952 ♂ ad.	<u>C. melanotos</u> mod. fat; t=7x3mm	100.0
		27.1/5.6/4.4 heavy body molt. <del>Skin P. Geyer</del>	
	953 ♂	<u>C. melanotos</u>	92.2
		29.6/5.3/4.2 molt advanced. heavy fat. t=4.5mm.	
	954 ♀ ad	<u>C. melanotos</u>	64.3
		26.4/5.0/4.0 b.p. present, refeathering.	
		mod. fat; ova < 1mm. heavy molt in early stage	
	955 ♀ ad	<u>C. melanotos</u> Heavy fat; ova to 1mm.	72.8
		28.4/5.0/3.8 b.p. re feathering. molt: pin feathers & bristles	
	956 ♀ ad	<u>C. melanotos</u>	64.6
		27.0/5.2/4.0 b.p. old, re feathering.	
		Heavy fat; ova to 1mm. molt: out of sheaths.	



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1968

Specimen record

7 July

957 ♀ ad.

Barrow, Alaska

Calidris alpina

lighter far;   
ova < 1mm.   
not injected

59.6

39.6/5.2/5.0 b.p. active, no body molt. trapline I: 10.0

21 July

958 ♀ imm.

C. alpina

Line IV B: 7.2

43.2g

959 ♂ imm

C. alpina

Line III B: 7.4 t=2mm.

50.5

960 ♂ imm.

C. alpina

Line III B: 6.8 t=2mm.

36.3

961 ♂ juv.

C. alpina

Line III B: 6.8

26.2

962 ♀ juv.

C. alpina

Line III B: 6.0

27.2

963 ♂ juv.

C. melanotos

Line IV B: 0.2

28.8

964 ♀? imm.

C. pusillus

Line III B: 4.2

22.3

22 July

965 ♀ ad.

Barrow, Alaska

C. alpina . lighter far

ova < 1mm

not injected -

57.4

34.6/5.6/4.3

b.p. refeathering; <sup>v. early</sup> body molt.

? → 966 ad.

C. alpina

not injected -

57.2

32.9/5.4/4.6

b.p. not vascular; head molting.   
no fat; ova < 1mm.

967 ♀ ad.

C. alpina

~~C. pusillus~~

NOT injected -

55.7

34.6/5.8/4.6

b.p. small, not vascular. Molt beginning.

23 July

968 ♂ ad.

Barrow, Alaska

t=3mm; lighter far.

C. bairdii

trapline VI: 1.2

not injected

38.2

22.9/4.1/3.6

Heavy body molt. b.p. recent.

969 juv.

Phalaropus

fulicarius

not inj -

19.2

trapline VIII: 8.6

970 juv.

P. fulicarius

trapline VII: 3.0

not inj -

23.4

24 July

971 juv.

P. fulicarius

trapline VII: 6.2

n.i.

24.3

972 ♀? imm.

P. fulicarius

trapline VII: 7.8

n.i.

42.6

973 ♂ imm.

C. alpina

trapline IV: 0.6

t=2mm n.i.

v.s. far

52.1





Machens  
1968

Specimen record

25 July

Barrow, Alaska

974 ♂ juv.

Calidris melanotos Line VII: 8.8 not inj. 52.6g

t = 2mm, v.l. fat

975 ♂ ad.

Phalaropus fulicarius Line VIII: 8.2 n.i. 38.9

22.2/4.1/4.2 b.p. regressing; t = 3mm; no fat  
v. light fat - quite minute.

976 ♀? imm.

C. alpina

Line VIII: 0.8 n.i. 54.8

977 ♂ ad.

limosa lapponica

~~limosa~~ t = 4x2.5; v.l. fat. heavy molt 256.7g

b.p. present.

978 ♀ ad.

limosa lapponica

~~limosa~~ lg. fol. < 1mm; v.l. fat 287.3

heavy molt; no b.p.

979 juv.

Phalaropus fulicarius

Line VIII: 3.6 36.0

1 August

Barrow, Alaska

980 ♂ ad.

Limpionetta fischeri

(lost - too old)  
found dead

124.8g

7 August

Barrow, Alaska

981 ♀ ad.

Calidris melanotos

56.0

28.9/4.4/4.0. mod. fat; lg. fol. = 1mm.

982 ♂ imm.

C. melanotos

76.0

29.5/5.8/4.4. moderate fat; t = 2mm.

983 ♂ imm.

C. melanotos

69.2

32.0/5.8/4.5. v. light fat; t = 2mm.

12 August

Barrow, Alaska

984 ♀ imm.

C. alpina

not injected - 48.7g

29.9/5.8/4.2 no fat. ova on head; heavy molt.

14 August

Barrow, Alaska

985 ♀ imm.

C. melanotos

not injected 53.4

27.0/5.3/4.4

trapline XI: 9.6 light fat



Maclean  
1968

Specimen record

7 August

Barrow, Alaska

- 986 ♂ imm. Calidris melanotos trapline II: 4.2 <sup>NOT</sup> inj. - 76.7g.  
31.6/5.6/4.1 heavy fat; t = 2.5 x 1 mm
- 987 ♂ imm. C. melanotos much down on face, neck. 63.9  
v. light fat; t = 2 x 1 mm
- 988 ♂ imm. C. melanotos 82.7  
29.4/5.5/3.6. Heavy fat; t. destroyed

18 August

Barrow, Alaska

- 989 ♀ imm. C. melanotos 52.3  
27.4/5.3/3.9. v. light fat; ~~ova~~ < 1 mm.
- 990 ♂ imm. C. melanotos 75.2  
28.6/5.9/4.5. mod. fat; t = 3 x 1 mm
- 991 ♂ imm. C. melanotos 77.3  
28.3/5.2/3.8. Heavy fat; t = 3 mm.
- 992 ♀ imm. C. melanotos 58.5  
27.7/4.6/3.5. moderate fat; ova < 1 mm
- 993 ♂ imm. Tryngites subruficollis trapline II: 2.4 <sup>not</sup> inj. - 68.3  
20.0/3.7/3.3 t = 2 x 1 mm; heavy fat

19 August

Barrow, Alaska

- 994 ♂ imm. Calidris melanotos 72.7  
29.0/6.1/4.3. light fat; t = 2 x 1 mm
- 995 ♀ imm. C. melanotos 64.9  
26.8/5.6/3.9. moderate fat; ova minute

20 August

Barrow, Alaska

- 996 ♂ imm. C. melanotos 85.6  
28.4/5.7/4.0. Heavy fat; t = 2 x 1 mm.
- 997 ♂ imm. C. melanotos trapline VII: 9.4 <sup>not</sup> inj. - 70.0  
27.2/5.5/4.2. light fat; t = 3 mm



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1968

Specimen record

0 August

Barrow, Alaska

998 ♀ imm.

Calidris melanotos trapline VII: 9.4 <sup>not</sup> inj - 58.1g

28.9/5.2/3.5 Heavy fat, ova < 1mm.

5 August

Barrow, Alaska

999 ♀ imm.

Tryngites subruficollis trapline I: 1.6 <sup>not</sup> inj - 53.2

18.7/3.4/3.4 Heavy fat; ova < 1mm.

21 August

Barrow, Alaska

1000 ♂ imm.

C. melanotos trapline VII: 10.0 <sup>not</sup> inj - 95.5

30.1/5.0/3.7. v. Heavy fat; t = 2 x 1mm.

27 June

Eagle Summit, Mile 110 Steese Hwy, Alaska

1001

juv.

Aphriza virgata coll. by R.B. WEEDEN 15.3g.

yolk in gut. legs blue-gray.

1002

juv.

Aphriza virgata coll. by R.B. WEEDEN 15.7g.

yolk in gut. legs bluegray.

15 July

Barrow, Alaska

1003

♀ ad.

Calidris alpina

<sup>not</sup> inj. 56.1

38.0/5.9/4.5. v. light fat; ova < 1mm. early belly molt.

28 August

Barrow, Alaska

1004

♀ imm

Calidris alpina v. light fat; ova minute 62.9g

31 July

Barrow, Alaska

1005

♀? imm.

C. pusilla light fat, ova minute <sup>not</sup> inj. 21.4g.

15 July

Barrow, Alaska

1006

♀? ad.

C. pusilla

<sup>not</sup> inj. 27.8g.

20.3/-/- v. Heavy fat; gonads minute.

1 August

Barrow, Alaska

1007

? imm.

C. pusilla

<sup>not</sup> inj. 17.1g.

no fat; gonads minute.



S. MacLean

1964 - 1968

Trapline catalog:  
1964





Maclean  
1964

1964 Trapline Shorebirds kill

001	15 July	II - 2.8	pus.	19.3g.
002	15 July	I - 4.2	pus	22.8g. 20.7
003	15 July	II - 6.8	pus	<del>22.8g.</del>
004	15 July	I - 10.0	pus	23.8g.
005	15 July	II - 4.6	pus	21.8g.
006	19 July	VIII - 9.8	pus	24.8g.
007				

007	15 July	II - 8.6	baired	32.3g.
008	25 July	IV - 3.0	?	9.0g.

retained for comparison at MUZ

009	19 July	XIV - 7.0	P.f.	19.7g.
010	19 July	XIII - 8.2	P.f.	33.8g.
011	19 July	XIII - 9.2	P.f.	30.3g.
012	19 July	XIII - 8.6	P.f.	33.3.
013	19 July	XIV - 7.8	P.f.	18.4
014	19 July	XIV - 7.8	P.f.	18.8

015	19 July	VII - 6.8	pus	22.1g.
016		6.6	pus	19.8g.
017		4.4	pus	21.7g.
018	15 July	II - 1.8	b	35.3g.
019	19 July	VII - 10.0	pus	19.4g.
020	19 July	VI - 0.4	b	22.4g.



Maclean  
1964

# Shorebirds Trapline Bill

21

021	14 July	<u>XIII</u> - 2.4	mel.	28.5g.
022	15 July	I - 3.4	b	33.8g.
023	15 July	I - 4.4	b	33.8g.
024	19 July	<u>XIII</u> - 5.0	mel	44.5g.
025	19 July	<u>XIII</u> - 4.8	mel	24.3g.
026	19 July	<u>VII</u> - 7.4	mel	33.5g.

027	20 July	<u>VII</u> - 9.6	mel	26.3.
028	20 July	<u>VIII</u> - 8.0	mel	25.5g.
029	21 July	<u>VII</u> - 9.2	mel	24.8g.
030	21 July	<u>VII</u> - 8.6	mel??	27.4

retained for comparison

031	20 July	<u>VII</u> - 8.0	a	31.3g.
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032	16 July	I - 1.6	a	33.9g.
033	24 July	<u>III</u> A - 2.0	a	24.5g.
034	19 July	<u>XIII</u> - 3.2	mel	26.6g.
035	19 July	<u>XIII</u> - 2.8	mel	31.9g.
036	24 July	<u>IV</u> A - 5.4	mel	18.0g.

037

037	19 July	<u>XIII</u> - 4.2	mel	41.9g.
038	19 July	<u>XIII</u> - 0.6	mel	30.2g.
039	19 July	<u>XIV</u> - 8.8	mel	40.6



Maclean  
1964

Trapline shorebird bill

040	19 July	<u>XIV</u> - 8.6	mel	18.7g.
042	19 July	<u>XIV</u> - 5.2	mel	19.0g.
043	20 July	<u>XIV</u> - 7.8	mel	24.3g.
044	20 July	<u>XIV</u> - 6.0	mel	17.6g.

045	19 July	<u>XIII</u> - 1.6	mel	26.4g.
046	21 July	<u>XIV</u> - 9.4	mel	21.5g.
047	19 July	<u>XIV</u> - 8.8	mel	27.6g.
048	19 July	<u>XIV</u> 1.2	mel	14.7g.

049	19 July	<u>V</u> - 4.6	mel	26.7g.
050	21 July	<u>VII</u> - 10.0	mel	26.0g.
051	21 July	<u>XIII</u> - 3.6	mel	25.9g.
052	20 July	<u>XIV</u> - 7.6	mel	38.7g.

026	19 July	<u>VII</u> - 7.4	mel	33.5g.
		long tall vial		

053	19 July	<u>VIII</u> - 9.8	a.	23.3g.
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S. MacLean

1964 - 1968

Stomach contents catalog:  
1966 - 1968





Maclean  
1966

## Shorebird Stomachs

15 March

Staphylinid beetles - common  
usually only legs  
Elongate shape; abbreviated elytra.

Carabid beetles - common  
dark - parallel sculpturing to elytra.  
→ mouth parts amber colored, broad-based.  
antennae, when present, segmented.

Chrysomelidae - g. Chrysolina  
ad - shiny metallic green elytra.  
lar - large, swollen abdomen

Trichoptera -  
adults v. rare - short-lived  
larvae case bearer - 2 kinds.

Tipulid larvae -

Tipula carinifrons -

largest. Circi v. short.

Prionocera gracilostyla

large. Circi longer than tipula,  
ringed.

Pedicia hanna

smallest - circi moderate length,  
simple.



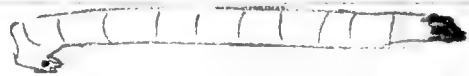
Maclean  
1966

## Shorebird Stomachs

5 March

Chironomid larvae -

Slender, segmented, dark heads,  
gill region posteriorly - dark markings  
turn darker w/ time



two dark spots at post. gill region.

Spaniotoma - most common g.

body unpigmented

Tipulid larvae - large,

body pigmented; stout

appendages around mouth - many, fine.

pigmentation - banded.

posterior end.  - dark.

rare

Dytiscid beetles:

Adult oval, v. dark. "prunose" color.

larvae predacious (falcate mandibles),

distinctly segmented, 1 pr. legs / segment.



Maclean  
✓ 1966

## Shorebird Stomachs

10 April (1)

Limnodromus - 7 - VII - 65

Tipula larvae - 12 (19, 14 mm)

Prionocera larvae - 7 & 13 large

1 large trichoptera larva

Chironomus lar. - 1 large

~~Adiantum / A. fr. / A. fr. / A. fr.~~

2) alpina - (6) - 19 - VI - 65 SN 107

Lemmus long bone fragments

Tipula lar - 3 - small

Muscid lar - 2 - (10 mm each)

3) melanotos - R B H - 1 - 15 - VI - 65

5 lg. Tipula larvae

1 sm. Chironomus larva

1 ~~unio~~ ~~larva~~ Muscid larva

unio. parts.

4) alpina - 19 - VI - 65 - (5) SN 102

~~unio. larva (same as above)~~

1 white - ca. 10 mm; 1 end blunt, other end

tapered w/ ➡ inside skin. = Muscid

1 Pedicia larva - ca. 10 mm +.

assorted Carabid parts - t.f.g.

fragments of Lemmus skull!



Maehra  
1966

# Shorebird Stomachs

30 April 5) C. alba - P. DeB - 434 ♂

1 large tipula  
few old Carabid elytra fragments  
?

6) ♀ phalarope - feeding in shallow pond - 6-VII-65.  
1 Carabid - far gone

7) fuscicollis - ♂ 19-VI-65 SU 108

2 sm. Chironomid larvae  
1 Carabid (?) head.  
1 ?

8) melanotos - ♀ 19-VI-65 - SU 095

17 large Prionocera (?) larvae (fresh)  
2 sm. Chironomid larvae (old)

9) melanotos - ♀ 3-VII

1 sm. Pelecid larva  
2 sm. Chironomid larva  
v. sm. dark amber segmental rings.  
abdomen of Stephylinid (?)  
two large pupae

10) melanotos ♀ - 23-VI-65 SU 151

2 spider  
egg (?)






Maclean  
1966

## Shorebird Stomachs

30 April 11) C. pusillus ♂ 19-VI-65 - SM 098  
5 sm. Chironomid lar. - fresh  
2 " " " - old  
4 large Prionocera lar.

12) C. fuscicollis - ♀ 19-VI-65 SM 106  
sm. Tipula lar  
2 { Staphylinid lar.  
larva - 12 segments +   
1 lar. as alpine 102. Muscid  
old carabid elytra parts - few.

1 May 13) C. melanotos - ♀ (nesting) 4 July, 1965  
5 ad. Carabid  
2 ad. Staphylinid  
2 spiders  
1 empty abdomen sac

14) P. fulvipes - ♀ 29-VI-65 PDEB 436,  
no recognizable animal matter. not saved

15) C. pusillus - ♀ 17-VI-65 (4)  
52 sm. Chironomid lar. - some P.F.G.  
1 adult - antennae 4 segments (remaining)  
= Collembola each segment of increasing size distally -  
- - - - - v. small - 2mm.  
1 spider.



Machea  
1966

## Shorebird Stomachs

- 1 May 16) *L. scolopaceus* - Imm. 22-VIII-65 - #2  
empty.
- 17) *L. scolopaceus* - Imm. 22-VIII-65 - #2  
✓  
1 Muscio lar. - 14 mm  
1 sm. Chironomid lar.  
3 sm. *Prionocera* lar.
- 18) *L. scolopaceus* - Imm. 22-VIII-65 - #2  
✓  
1 muscio lar - 7 mm.  
1 large *Prionocera* lar. - P.F.G.
- 19) *C. pusillus* - 15-VI-65 - RBH #1  
✓  
1 Staphylinid beetle  
7 Chironomid lar - small  
1 sm. spider  
1 large spider.
- 20) *C. pusillus* - 15-VI-65 - RBH #2  
✓  
1 - as #15 - better condition. two  
= Collembola elongate processes from end of abdomen.  
13 sm. Chironomid lar. [8 fresh; 5 old]  
1 muscio lar - 7 mm.
- 21) *Limosa haem* - 28-VI-65  
no identifiable animal remains.  
few pieces of tipulid larvae.



Maehsa  
1966

# Shorebird Stomachs

✓  
1 May 22) C. pusillus - 15-VI-65 - RBH #3.

✓  
1 - as #20 - Collembola,

ca 20 - old small chironomid lar,

1 spider

23) C. alpina - 19-VI-65 - #2.

2 large Prionocera

3 sm. Prionocera

end of larva - 0000~~00~~ - Staphylinid?

total length = 4 mm

15 nematodes - 3-5 mm.

24) C. alpina - 19-VI-65 #3

6 large Prionocera lar

6 sm. Prionocera lar

1 sm. Tipula lar

hennus molar, tibia.

25) C. alpina - 19-VI-65 #4

1 large Prionocera (23 mm) - v. fresh -  
in lower oesophagus.

20 mm. Prionocera - just below v. fresh.

6 lg. Prionocera lar } older

5 sm Prionocera lar }



Maclachlan  
1966

# Shorebird Stomachs

✓  
2 May 26) C. melanotos - 7-VII-65 #3

sm. spider

Muscio lar - 11 mm.

~~Trichoptera Larva (?)~~

~~21 ad. Dytiscid (prob. 2)~~

1 ad Carabid

27) C. melanotos - 7-VII-65 - #2

28) C. melanotos - 7-VII-65 - #1

1 large *Prionocera*

3 sm. *Chironomus* lar

29) C. alpina - 25-VI (10)

fragments of *Carabid* elytra (1 or 2)

unident *Tipulidae* - *Tipula* or *Prionocera* larvae

30) Phalaropus fulicarius - 25-VI-65

3 spiders

2 ~~Chironomus~~ *Chironomus* larvae - sm

fragments of ad. *Carabid*

" " metallic green elytron -

= *Chrysomelid*





Moehren  
1966

# Shorebird Stomachs

✓

- 2 May 31) ✓ C. melanotos - SM 461 15-VIII-65  
87 large Chironomid lar.  
1 sm. Prionocera lar.
- 32) C. melanotos - 15-VIII-65 - RBH 002  
17 small Chironomid lar  
1 large Chironomid lar.  
misc. parts - Tipulidae - T.F.G.
- 33) ✓ C. melanotos - 14-VIII-65 SM 460  
69 Chironomid lar - T.F.G. to size  
1 Prionocera lar. mouth part
- 34) C. alpina - 25-VI-65 - #7  
1 lg. Prionocera lar.  
4 sm. Prionocera lar  
1 ad. Carabid
- 35) C. alpina - 25-VI-65 #8  
1 large Tipula - lower esophagus  
21 mm. very fresh.  
2 ad. Carabids - 10mm - fresh.  
43 sm. Tipula  
43 Muscid lar - 10, 12, 9, 9 mm.  
empty abdomen - spiozer (?)



Maclean  
1966

# Shorebird Stomachs

May 36) C. alpine - 25-VI-65 - #9

2 large tipula larvae

8 small tipula

2 ad Carabids

1 Chironomid + EG

May 37) C. melanotos - imm ♀ 20-VIII-65 SN 467

Muscid lar - 13mm

7 sm. Chironomid lar.

1 spider

1 - fragments of Carabid ad.

38) Limnospinos scolopaceus - Imm. 18-VIII-65 SN 464

1 lg. Chironomid lar.

6 sm. Chironomid lar.

39) Lim. scol. - Imm. 18-VIII-65 - SN 463

3 Muscid lar. (?) - 15mm each.

one smaller.

12 sm. Chironomid lar.

May 40) Phal. ful. - 3 - VII - 65 Voth Slough

2 lg. Prionocera lar

13 sm. Prionocera lar.

5 lg. Chironomid lar

16 sm. Chironomid lar.

gastropod shell - ca. 1.5mm.



Macler

✓ 566

## Shorebird Stomachs.

- May 41) Phal. ful. - 3-VII-65 Voth Slough  
Plecoptera nymph - 5mm.  
✓  
1 sm. Priorocera lar.  
1 sm. Chironomus lar.
- 42) Phal. ful. - 3-VII-65 Voth Slough.  
4 (?) Trichoptera cases  
✓  
1 lg. Chironomus lar.
- 43) Phal. ful. - 3-VII-65 Voth Slough  
8 large Priorocera lar  
4 small Priorocera lar  
1 as Cerobio.  
1 Trichoptera case.
- 44) Phal. ful. - 3-VII-65 Voth Slough  
1 - Muscio lar - 10mm  
1 sm. Chironomus lar.  
few fragments of as. Cerobio.
- 45) C. pusillus - imm. 10-VIII-65 SN 456  
✓  
10 sm. Chironomus lar.  
1 spider  
1 Cerobio as.  
6 eggs - 1mm - ○ - brown - bluish or lens.



Hechen  
✓ 1966

## Shorebird Stomachs

4 May 46) C. pusillus - imm. 10-VIII-65 SU 457

49 Sm. Chironomus lar

4 spiders

13 mites

1 collembolan

1 as Carabid

May 47) C. alpina - 17-VIII-65 - SU 462

few small carabid parts - < 1.





Machea  
✓ 1966

Shorebird stomachs

- 19 May 48) C. melanotos - ♂ 13 July, 1965 #2 SN 430  
1 Chrysalina ad.  
1 lg. Prionocera lar.  
13 Chironomus lar.  
7 Chironomus pupae. - large  
34 Chironomus adults - small  
1 spider
- 49) C. melanotos - 7 July, '65 - SN #2  
14 lg. trichoptera lar.  
1 sm. (ob) Chironomus ad. (wings)
- 50) C. melanotos 7 July '65, SN #1  
1 lg. Prionocera lar. - fresh  
1 Muscio lar - 13mm - ob  
5 sm. Chironomus lar. - ob
- 51) Phalaropus fulicarius - 20 Aug, '65, SN 466  
1 Collembolan  
3 sm. Trichoptera lar case  
Copepods  
mite eggs  
lot of crap.



Machen

✓ 1966

## Stomachs

5 June

482

Barrow, Alaska

Calidris alpina - ad ♂ 56.0g.

Tipula lar - 20 mm - fresh, in lower  
esophagus

2 fresh, 3 old Tipula lar.

sm. plant seeds

6 June

483

1<sup>st</sup> yr. ♀

Barrow, Alaska

Calidris alpina - 71.1g.

- saved

7 Tipula lar. - all old.

1 ad. Carabid

? 1 large. (Dipteran) pupal case - prob. Tipulid.

484

ad. ♀

Calidris alpina - 63.9g.

1 do Tip. lar -

unidentifiable garbage.

485

ad ♂

Calidris alpina - 53.9g.

3 Tipula larvae - fresh (21, 17, 15 mm)

Tipula larvae do

3 large, 7 small

486

ad ♂

Calidris alpina - 57.7g.

8 small Tipula larvae - none fresh

7 June

489

ad ♂

Barrow, Alaska

Calidris pusillus - 26.8g

1 Collembolan

2 Muscio larvae - 8 mm.

8 small Chironomid lar

2 very small Chironomid lar.

3 small Trichoptera larvae - ca.



Machan  
1966

## Stomachs

8 June

### Barrow, Alaska

♀ Vermivora celata - FAP 66-1

ad. ~~Dytiscid~~ Chrysomelidae

ad. Staphylinid

10 Spiders.

12 large Collembolans

2 mites

5 tenthredinid larvae

pr. Muscid wings

9 June

### Barrow, Alaska

ad ♀ Calidris pusillus - 32.9 g. FAP 66-2

3 Soil nematodes

1 very small Chironomid larva  
plant seeds.

much misc. organic material.

488 ad ♂ Calidris alpina - 56.7g. Footprints lake ridge

1 Muscid larva - 9mm

2 old Tipula larvae

489 ad ♀ Calidris alpina - 62.1g. Footprints lake ridge

1 Fresh Tipula lar - 22mm

9 old Tipula larvae - large (>20mm)

Muscid larva - 7mm.

pieces of Carabid ad - elytra



✓  
Maclean  
1966

## Stomachs

9 June

♀ Longspurs - Calcarius lapponicus

2) FAP -

most active ♀

1 muscio larva

490 ad ♀

Calidris alpina - 69.4g.

5 sm. Tipula larvae - old

remnants of Carabus adult

Lemmus molar

491 ad ♀

Calidris alpina 60.4g. Feeding obs. #027

Fresh large Tipula lar. in esophagus - 23mm

Fresh Tipula larva - 20mm

5 old (small?) Tipula larvae

Staphylinus larva

fragments of Carabus adult

✓ ad ♀

Calcarius lapponicus

b)

2 Muscio larva

4 small Chironomus larvae

1 Spider

1 small Tipula larva

fragments of Carabus adult.

plant seeds - several spp.

✓ ad ♀

Calcarius lapponicus

c)

2 Carabid adults

2 do Tipula larvae





Maehlen  
1966

# Stomachs

✓  
d) ♀ ad. Calcarius lapponicus  
15 Muscio larvae - ca. 12 mm.  
Chrysolina larva  
Collembolan  
Fragments of ad. Carabid  
unident. pupa case  
2 "blobs" - seeds, (w/ Chrysolina)

10 June

e) ♀ ad. Calcarius lapponicus  
4 Chironomid larvae - small, fresh.  
3 " " " " , old.  
1 Muscio larva  
ad. Carabid  
SEEDS - ca. 9.

f) ♀ ad. Calcarius lapponicus  
2 Staphylinid larvae  
1 Spider  
3 Chironomid larvae - small  
2 Muscio larvae  
Fragments of Carabid adult.

11 June

✓ ad ♀ Arenaria interprex - 132.9g.  
6 Lemmus molars + misc. Lemmus bones.  
4 Staphylinid larvae (saw mouth parts of  
one - definitely not Carabid)  
1 Small Spider  
2 Small Chironomid larvae



Macler  
1966

## Stomachs

Phalaropus fulicarius - FAP 66-3

Feeding obs. FAP-003 (11 June)

6 Small Tipula larva

53 Chironomid larvae - ca. 8 mm.

Pr. Muscid wing -

♀ Phalaropus fulicarius - FAP RP-1

Feeding obs. FAP 004 (11 June)

1 Staphylinid larva (w/ head)

Misc. plant and unidentifiable organic matter

ad ♂ Phalaropus fulicarius - FAP RP-2.

w/ ♀ FAP 004

2 Spiders

plant material, inc. SEEDS (ca. 10)

ad ♀ Phalaropus fulicarius - FAP RP-5

Feeding obs. SN 057

1 Chironomid larva - fresh - 9 mm

Pedecia hainai larva

Dytiscid larva

Fragments of adult Carabid

ad ♂ Phalaropus fulicarius - FAP - RP-4

Feeding obs. SN 057

2 Chironomid larva - ca 9 mm



Moehren  
1966

## Stomachs

ad ♂ Phalaropus fulicarius - FAP RP-6

Feeding obs. SU 056

Prionocera larva

Staphylinid larva

2 Chironomid larvae -

Spider

2 Muscid larvae - 9mm

fragments of adult carabid  
plant material.

ad ♀ Phalaropus fulicarius - FAP RP-7

Feeding obs. SU 056

3 Spiders

2 Spiders - Lycosidae

? Diptera Pupal Case

1 June

Calidris pusillus - FAP Cp-1

Feeding obs. FAP-005

2 Spiders

2 Chironomid larvae

Carabid adult fragments

1 Collembolan

Calidris pusillus - FAP Cp-2

Feeding obs. SU 059

2 Carabid adults

Spider

Staphylinid adult - fresh



Maehre  
1966

FAP - CP-2 (cont)  
2 Chironomid larva  
small fragment of Chrysolina adult.

ad ♂ Calidris pusillus - FAP CP-3  
Feeding obs. SM 059  
few old fragments of Carabid adult

ad ♂ Calidris pusillus - FAP CP-4  
Feeding obs. SM 058  
Spider  
Carabid adult  
tipulid larva - either Prionocera or Pedecia

ad ♂ Arenaria interpres - FAP Ai-1 (w/ ♀ SM 492)  
Staphylinid larva - saved - v. fresh  
v. few Carabid fragments

10 June

Barrow, Alaska

ad ♀ Calcaricus lapponicus  
1 Muscid larva - 13mm.  
2 Chironomid larvae  
1 Spider  
1 Chrysolina larva  
1 staphylinid larva





Machene  
1966

## Stanaehs

2)

ad ♀ Calidris lapponicus

ad. Carabid

8 Staphylinid larvae

Few fragments of Chrysoline adult  
~~few fragments of carabid adult.~~

1)

ad ♀ Calidris lapponicus

fragments of Chrysoline adult

3 spiders

staphylinid larva

13 June

## Barrow, Alaska

ad ♂ Calidris pusillus FAP Cp-6 w/ FAP 006

2 large Prionocera larvae

1 Small Tipula larva

1 Staphylinid larva

72 Collembolans

10 Spiders

2 Carabid adults

1 Dytiscid adult

8 Chironomid larvae - small

ad ♀ Calidris pusillus - 32.6g. FAP Cp-5, FAP 006.

4 Small Tipula larvae - 3: < 10mm, 1: 13mm

1 Pedecia larva - 10mm.

2 Dytiscid larvae

1 Dytiscid adult

2 Staphylinid larvae



MacLean  
1966

## Stomachs

3 June

C. pusillus - cont.

2 adult Staphylinids  
3 small Chironomid larvae  
12 Spiders

13 Collembolans

fragments of adult Carabid  
Lemmus molar

ad ♀ Calidris pusillus - 27.1g. FAP CP-7; SM 065

3 small Tipula larvae

1 Staphylinid larva

2 Muscid larvae

fragments of adult Carabid

1 Lemmus tooth

ad ♂ Calidris pusillus - 20.3g. FAP CP-8; SM 065

1 Small Tipula larva

5 adult Carabids

ad ♂ Calidris bairdii - 39.1g. FAP CB-1; SM 061

25 adult Carabids (heads).

1 adult Staphylinid

493 ad ♂ Calidris bairdii - 39.5g. ; SM 062

5 adult Carabids



Maclen  
1966

## Stomachs

✓  
494 ad ♂ Calidris bairdii - 40.7g. no feeding obs.

- 4 Tenthredinio larvae
- 2 Small Tipula larvae
- 3 Muscio larvae: 6, 6, 8 mm.
- 2 ad Carabids
- 1 Spider

495 ad ♂ Calidris bairdii - 40.0g. SN 063

- 2 large Tipula larvae
- 1 small Tipula larva
- 1 Spider
- 1 Tenthredinio larva
- 3 Tenthredinio larvae - diff. instar or genus <sup>(same)</sup>

ad ♂ Arenaria interpres - FAP 21-2; FAP-007.

- 1 Small Tipula larva
- 2 Muscio larva
- 3 Sm. Chironomid larva
- 1 large Chironomid larva
- 1 Spider
- 1 ad. Staphylinid
- v. few fragments of Chrysolina

15 June, ad ♀

(same some)

Phalaropus fulicarius - FAP RP-9; SN 098

39 adult plecoptera (variable size) <sup>plus fragments</sup> of many more

Dytiscid adult

2 small Chironomid larvae.



Maclean  
1966

## Stomachs

✓ ad ♂ Phalaropus fulicarius - FAP RP-10; SN 098

17 ad. Plecoptera plus fragments of more

1 ad. Dytiscid

Fr. Muscid wings

1 Staphylinid larva

1 Dytiscid larva

1 Empty Dipterous pupal case

ad ♂ Phalaropus fulicarius - FAP RP-11; SN 098

14 ad. Plecoptera plus fragments of more

Sm. Chironomid larva

ad ♀ Phalaropus fulicarius - FAP RP-8; SN 095

3 large Prionocera larvae

3 large Pedecia larvae

6 ad. Carabids (Pezom.)

✓ ad ♀ Calidris bairdii - FAP CB-2; SN 096

10 small Tipula larvae

2 large Tipula larvae

(Muscid?)

2 Unknown segmented larva - saved. cd. 11 mm.

3 ad. Carabids

2 ad Staphylinids

3 larval Staphylinids





Mae Lean  
1966

## Stomachs

- ✓  
ad ♀ Calidris alpina - FAP Ca-1 ; 811 097  
1 Small Tipula larva  
1 Spider

19 June

### Barrow, Alaska

- ad Calidris pusillus  
few fragments of adult Carabid

- ad. Calidris pusillus  
fragments of adult Carabid (1)  
Staphylinid larva - (1)

- ad. Calidris pusillus  
1 Spider  
4 very small Chironomid larvae  
few fragments of Carabid adult.

- ad ♂ Calidris melanotos - FAP C.m.-1 ; 008  
1 fresh small Prionocera larva.  
3 old Prionocera larva,  
Spider  
ad. carabids (heads)  
Collembolan  
Unioens. Pupal case

- ad ♀ C. melanotos x C. fuscicollis FAP 66-3.  
2 Carabid adults + fragments  
2 Staphylinid adult  
3 Spiders



Maclean  
1966

# Stomachs

(cont) ad ♀

C. melanotos x C. fuscicollis  
Lemmus bones

ad

Calcarius lapponicus

1 ad. Staphylinid

2 Spiders

2 Mites

ad.

Calcarius lapponicus

Lemmus bones

no identifiable prey spp.

20 June

## Barrow, Alaska

ad ♂

Calidris pusillus - FAP C.p.-12

no identifiable remains.

12

ad ♂

Calcarius lapponicus - Trapline I-9.2-29.4g.

(t=10x6mm, fat moderate)

2 ad. Muscids

2 Large Tipula larvae

1 Small Prionocera larva

ad ♀

Calcarius lapponicus - Trapline II-7.6.

Small Tipula larva

ad. ~~Chrysomelid~~ Chrysomelid + fragments  
(larger)

2 Tenthredinid larva - 18mm. + extra heads



Maclean  
1966

# Stomachs

21 June

## Barrow, Alaska

ad ♀ Phalaropus fulicarius - killed by Eskimo  
kids. 4<sup>th</sup> egg in oviduct.

6 large Prionocera larvae

? 1 large <sup>unident</sup> ~~tipula~~ larva - cheek (saved)

1 large Chironomus  
~~larva~~ larva - saved

Unident. Pupal case

ad ♀ Phalaropus fulicarius - 35.6g. 4<sup>th</sup> egg in  
oviduct.

5 ad. Carabid heads.

ad ♀ Phalaropus fulicarius - 65.7g.

Small Trichoptera larva - woven type

9 ♂ Spiders

m ad Calidris lapponicus - Trapline I-II.

✓ 2 Tipulid Pupae - prob. Tipula, by size.

7 adult Chrysolina

6 Spiders

fragments of old tipulid larvae

2 ad. Muscids (wings)

m ad Calidris lapponicus - Trapline I-II.

✓ few fragments of adult Chrysolina  
(stomach nearly empty)



Maclean  
✓ 1966

## Stomachs

ad. Calcarius lapponicus - Trapline I-II.  
0 Fragments of ad. Chrysolina (4 heads)  
fragments of ad. Carabid  
Muscid wings - maybe 3 pairs.

ad. Calcarius lapponicus - Trapline I-II.  
p Fragments of ad. Chrysolina

22 June

### Ikroavik Lake, Barrow, Alaska

NU 144 ad. neuter Phalaropus fulicarius - 54.5g. SN-125 Feeding

Esophagus -

88 Chironomid larvae - 6-8mm, fresh.

Stomach -

251 Chironomid larvae - 6-8mm

two 58 ad ♂ Calidris alpina (w/ eggs - SN 512) no feces

3 Spiders

1 Dytiscid larva

fragments of adult Carabid

two 57 ad ♂ Calidris melanotos - 117.5g. Feeding obs. SN-122

✓ 4 ad Carabids (heads)

3 large Prionocera larvae - fresh

2 small Prionocera larvae - not so fresh

20 large Pedecia larvae

7 Dytiscid larvae

1 Spider

2 Muscid larvae





Maclagan  
1966

## Stomachs

- as ♂ Calidris melanotos - 101.1g. feeding obs. SN 120  
t = 12x6 mm. Spec. to Earlham College.
- 2 Small Tipula larvae
  - 1 adult Dytiscid
  - 1 Dytiscid larva
  - 5 large Prionocera larva
  - 3 adult Carabid
  - 4 large Tipula larvae
  - 5 large unidentified larvae - saved
  - 1 Small unidentified larva - saved

- as ♂ Calidris alpina - FEED. obs NU 325
- Small Tipula larvae
  - Small larva, as unident. above
  - Muscio larvae
  - Unident larva - large - as ♀ P.H., 21 June <sup>saved</sup>
  - fragments of adult Carabid

- as ♀ Phalaropus fulicarius - 57.7g. FEED obs. SN 124
- 4<sup>th</sup> egg in oviduct.
  - 2 large Prionocera larvae.
  - 7 spiders
  - 2 small Chironomid larvae
  - 4 ad. Carabid (heads)
  - 1 large Pedicia larva



Maclean  
1966

## Stomachs

as ♀

Calidris melanotos - 64.4g. SN-117

clutch completed, ovary regressed.

2 large Tipula larvae

3 small Tipula larvae

15 ad. Carabids (heads)

1 spider

1 larval head - as ♂ C.O. 22 June

as ♂

Calidris alpina - 52.1g. feeding obs. SN-116

6 small Tipula larvae

2 larval heads - as above

1 ad Carabid

6 ~~♂~~ Muscid larvae - 11mm

1 ad Dytiscid - head

2 ad. Flying insect - 2 winged - saved

as ♀

Phalaropus fulicarius - 62.1g. feeding obs. SN 118

4 rupt. foll, ovary regressed.

Esophagus - gastropods - saved

Stomach - 2 smaller gastropods + fragments

Muscid larva

25 June

as ♂

Phalaropus fulicarius - trapline 3a-3b.

ca. 250 <sup>small</sup> ad. Chironomids - many fragments.

as ♀

Phalaropus fulicarius - trapline

ca. <sup>175 small</sup> ~~200~~ ad. Chironomids.



Machea  
1966

# Stomachs

27 June as ♂ Calcarius lapponicus - + rapline

as. Chrysolina

9 spiders

37 Imm. SEEDS

as ♀ Calcarius lapponicus - trapline  
nothing recognizable

as ♂ Calionis pusillus - trapline twc-63.

54 as. Carabids

1 as. Staphylinid

as ♂ Plectrophenax nivalis - 29.4g. t = 11x7mm. + rapline

8 Spiders

1 Ab. Chironomid

Empty pupal case - ca. 8mm

as ♀ Calcarius lapponicus - trapline. b.p. present.

3 Spiders

as Carabid

as ♂ Calcarius lapponicus - t = 9x5mm. Trapline

as. Chrysolina

8 Chironomid pupae

10 Spiders

= 6 muscio  
pupae

6 pupal cases -

2 pupal cases -



} saw 20

44

Machens  
1966

## Stomachs

27 June] ad ♂ Calcearius lapponicus - trapline

ad. Chrysolina

9 Imm. seeds.

29 June ad ♂ Calidris alpina - SM 160  
SS. 3g. b.p. = 7x4, formed  
3 Dytiscid larvae - old  
few fragments of carabid adult

ad ♀ Calidris melanotos - FAP C.p. -

3 Dytiscid larvae

= 5 Muscidae

5 Pupal cases

3 Pupal cases

} may be opposite  
ends of one case?

1 July

## Barrow, Alaska

518 ad ♂

Phalaropus fulicarius

2 large Chironomus adults

2 small Chironomus adults

1 larval head - Dytiscid

2 small Priocera larvae

1 trichoptera larva - circular weave

ad ♂

Calidris melanotos - 106.4g. T = 5x2mm, for v. heavy

SM 163

nothing fresh.

2 Pedicia larvae

2 Carabid adults

2 Spiders - large Tipula pupa

1 v. large ~~Chironomus~~ (2) adult - as

next stomach





MacKenzie  
1966

## Stomachs

✓

1 July] 517 as ♂

Calidris melanotos - SN 163

2 v. large ~~Chironomus~~ <sup>Part of item 4</sup> ~~adults~~ - saved

6 spiders - large

2 small Chironomus adults

1 unident. larval skin - saved [Tipula pupa?]

1 pupal case - saved

516 as ♂

Calidris melanotos - SN 173

20 ad. Carabids (heads)

4 sm. Tipula larvae

1 Spider

1 large Chironomus pupa

> 1? unident. larval skin - as item 4, above (saved) [Tipula pupa?]

June

Barrow, Alaska

514 as ♂

Calidris pusillus no feeding obs.

ad. Carabid

sm. Chironomus larva

unidentifiable organic muck.

July

515 as ♀

Phalaropus fulicarius - SN 172

1 adult Dytiscid

1 tipulid pupa - saved

est. 200 Chironomus adults - TFG for good count



Maclean  
1966

## Stomachs

2 July

Barrow, Alaska

as ♂ Calidris lapponicus - trapline

✓ as. Chrysolina

2 Tipula pupae

fragments of Chironomus adults

4 July

Barrow, Alaska

as ♂ Calidris melanotos - 93.2g.  $t = 10 \times 6 \text{ mm}$

nothing fresh - old fragments of Carabids,  
tipula wings.

520 as ♂ Calidris melanotos - 93.3g.

✓ 3 Tipula pupae (or <)

oval pupal cases (11) - ca. 2

510 as ♂ Calidris melanotos - 89.0g.

✓ 4 large Pedecia larvae (?) (saved)

1 as. Crane fly (wings)

ca. 3 as Chironomus (wings)

ca. 2 as Muscids (wings)

523 as ♂ Calidris melanotos - 94.7g.

small Chironomus larva



fragments of oval pupal cases

[none of it very fresh.]



Maclean  
1966

## Stomachs

[4 July] 522 ad ♂ Calidris melanotos - 100.0g. SM 180  
2 Tipula pupae + fragments  
2 Staphylinid larvae  
1 ad. Crane fly - wing  
Pupel cases - 2 and 1 - note 2-pronged <sup>SDW20</sup>  
1 ad Carabid - v. fresh  
6 <sup>1/2</sup> Spiders  
1 Targe larva -  

5 July

## Barrow, Alaska

521 ad ♀

Calidris melanotos - 66.7g.

1,000 Tipulid eggs - 1.5mm. (SDW20)

4 ad. tipulids - wings

2 Tipulid pupa


2 ad. Carabids

ad ♀ Phalaropus fulicarius - 67.0g. lg. fol. 1mm, far heavy.  
SM 187.

1 Tipula (?) Pupa

1 Muscio Pupa 

1 Chironomid Pupa

Dense organic matrix - probably  and  
adults (?)

ad ♀ Phalaropus fulicarius - 67.2g. lg. fol. 1mm, far  
moderate. SM 187.

Dense matrix of Chironomid pupae



Maclean  
✓ 1966

# Stomachs

8 July

## Barrow, Alaska

524 ad ♀

Calidris pusillus

5 ad. Tipulids (wings)

Tipulid eggs (ca. 50)

525 ad ♂

Calidris pusillus

2 ad. Tipulids

1 ad. Dipteran - other

1 spider

fragments of ad. Carabid

tipulid eggs (ca. 100)

526 ad ♂

Calidris pusillus

1 Tipula pupa

6 ~~5~~ ad. tipulids (wings)

10+ smaller diptera (wings)

fragments of ad. Carabid

tipulid eggs (ca. 100)

527 ad ♂

Calidris pusillus

1 tipulid pupa

ca. 10 smaller diptera

528 ad ♂

Calidris fuscicollis - SM 192

fragments of Tipulid wings - 1 bead  
fragments of ad. Carabid





✓ Moebe  
1966

## Stomachs

8 July) ad ♂ Calidris melanotos - 89.5g. t = 13x7mm.

SN 193

- 5 Tipula pupae
- 3 Staphylinid larvae
- 4 Dytiscid larvae
- 1 Carabid adult
- 6 Tipulid adults
- 8 smaller dipterans
- 1 Muscic adults
- Tipulid eggs - ca. 200

11 July

### Barrow, Alaska

529 ad ♂

Calidris alpina

1 ad. Tipulid

2+ smaller ad. Diptera

Tipulid eggs - ca. 50

1 larva distal end

12 July

### Barrow, Alaska

531 juv. ♂

Calidris alpina - trapline

6 ad. Tipulids

ca. 20 smaller ad. Diptera

1 Spider

Tipulid eggs - ca. 50

1 large Muscic



Maclean  
1966

## Stomachs

13 July

### Barrow, Alaska

532 juv.

Calidris alpina - trapline IX - 5.6

6 ad. Tipulids.

6 Sm. ad. Diptera

4 Spiders

533 ad ♀

Calidris pusillus - trapline IX - 6.4

fragments of sm. Diptera

fragments of tipulid wing

tipulid eggs - ca. 10.

14 July

### Barrow, Alaska

♀

Calidris alpina - 60.3g. SN 199.

1 ♀ ad. Tipula

1 larva      0000

ad ♀

Calidris alpina - 59.4g. SN 201

2 Dytiscid larvae

fragments of ad. Tipulid

535 ad ♂

Calidris bairdii - trapline IX - 9.6

7 ad. Tipulids + fragments.

(both large and Pedicia)

536 ad ♂

Calidris pusillus - trapline IX - 9.0

37 Chironomid larvae - sm.

2 Chironomid pupae - sm

1 ♀ Tipula adult



Maecher

1966

## Stomachs

536

(cont)

1 ad. *Tenthredinio*

23 smaller ad. Diptera

538

juv.

Arenaria interpres trapline IX-8.2.

10 Smaller diptera

1 ad. *Carabio*

fragments of ad. *tipulid*, inc. eggs.

16 July

### Barrow, Alaska

juv. ♂

Calidris alpina - 36.7g. Trapline VII-8.6.

fragments of ad. *Tipulids*

fragments of smaller ad. Diptera

539 juv. ♀

Calidris alpina - 41.4g. trapline VII-8.0

1 ad. ♂ *Tipula* - v. fresh

11 ad. *Tipulids* (wing count) - both large & small.

Lemmus tooth and bones

6+ smaller Diptera

17 July

### Barrow, Alaska

juv.

Calidris alpina - 38.8g. Trapline VII-5.0

2 ad. *Tipulids* (1 is ♀ *Tipula*)

3+ ad. *Trichoptera*

4+ sm. ad. Diptera

1 Chrysoline larva



MacLean  
✓ 1966

# Stomachs

19 July

Barrow, Alaska

juv. ♂

Calidris bairdii

PDB #533

10 + sm. adult diptera

♂ Pedicia (? - wings)

juv. ♀?

Calidris bairdii

- PDB #532

4 + sm. ad. diptera

ca. 50 tipulid eggs - black.

✓ ad ♂

Calidris bairdii

- NAMU.

3 Chironomid larvae

1 empty tipulid pupa

sm. ad. Diptera - many fragments.

tipulid eggs - ca. 40.

twc 72 ad ♂

Calidris bairdii

1 Dytiscid larva

ca. 10 Tipulid eggs

548 ad ♂

Calidris bairdii

tipulid eggs - ca. 250

549 ad ♀

Calidris bairdii

tipulid eggs - ca. 200

1 ad. Carabid

fragments of ad. tipulids

few fragments of sm. ad. diptera.





Maclean  
1966

## Stomachs

juv. Calidris bairdii - NU  
Tipulid eggs - ca. 25

juv. Calidris bairdii - NU  
Tipulid eggs - ca. 40

✓ juv. ♂ Calidris alpina - 30.6g. Trapline III-B3.6  
1 Spider  
10 Sm. ad. Diptera + many fragments  
Lemming bones  
fragments of (>1) ad. Tipulid  
Tipulid eggs - ca. 100.  
3± ad. Trichoptera (under wings)

juv. ♂ Calidris alpina - 31.0g. trapline III-B-3.6  
Lemmus tooth  
fragments of sm. Diptera (wings)  
Tipulid eggs - ca. 50.

juv. ♀ Calidris pusillus - 25.0g. - trapline III-C-2.6.  
1 ad. Trichoptera  
1 ♂ Pelecinus  
>1 Larger ad. Tipulid - wings  
ad. Muscio (eye)  
20± Sm. ad. Diptera  
ca. 100 Tipulid eggs (orange. Pelecinus?)



Machern  
1966

# Stomachs

22 July ✓

juv.?

Barrow, Alaska

Calidris alpina - 19.1g. Trapline IIIA - 6.4.

♀ Tipula

Tipulid eggs - ca. 75

1 Spider

5+ sm. ad. Diptera

27 July

ad ♂

Barrow, Alaska

Calidris bairdii - 35.5g. t=2x1mm, far. mod.

Heavy molt. b.p.+.

2 (+?) Tipula larvae

1 fragments of ad. carabid

1 ad. muscid (wings)

2 Spiders

1 Tipulid egg

550 ad ♂

Calidris alpina -

ad. Carabid

3 Tipulid eggs

1 pr. wings - ca. 5mm

ad ♂

Phalaropus fulicarius - 50.5g. t=3x1mm,

far mod., molt mod. b.p. -.

5 sm. Chironomid larvae

1 Chironomid adult

3 misc. small ad. diptera (wings)



Maclean  
✓ 1966

# Stomachs

- [27 July]    ♂♂    Phalaropus fulicarius - 44.0g. t=5x2 mm,  
b.p.+ , fec mes, molt light.  
20(?) Nail shells - v. small (2mm.)  
fragments of insect legs?
- 21 July    juv. ♀    Calidris alpina - 32.9g. trapline IVA-9.4  
ad. <sup>Hemiptera</sup> ~~Diptera~~ in esophagus  
ca. 20 tipulid eggs
- juv. ♀    Calidris alpina - 27.2g. trapline IVA-8.8  
2 Tipulids - large wings  
ca. 10 Plecoptera (wings)  
ca 10 Trichoptera  
ca. 20 smaller ad. Diptera  
2 ad. Carabids (heads)  
ca 75 (orange) tipulid eggs
- 29 July    ♂♂    Barrow, Alaska  
Calidris pusillus - 22.8g, t=2x1, b.p.-.  
fragments of ad. Carabids  
2 med. Chironomid larvae
- 552 ad ♀    Calidris alpina - 58.5g.  
2 ad. Hemiptera -  
fragments of ad. muscids (2 heads)  
fragments of ad Chironomids  
fragments of ad Carabids.



Machea  
✓ 1966

## Stomachs

[29 July]

ad ♂

Calidris alpina - 53.5g. t=2x1. b.p. reg.

5+ Muscids

3+ Ichneumonids

2 ad. Chironomids

1 Spider

2+ ad. Carabids

imm.  
juv. ♂

Calidris alpina - 53.5g. t=2x1mm SN 211

4 spiders

16+ sm. ad. Diptera

3 Carabid adults

1+ Muscid adults

imm. ♂

Calidris alpina - 51.5g. t=2x1mm SN 209

20+ sm. ad. Diptera.

inc. 1 mosquito, 3 grass Chironomids.

ad ♂

Phalaropus fulicarius - 58.4g. t=3x2mm

1 Dytiscid larva

2 ad. Carabids

very large quantity of unintelligible  
insect debris. Looks like coleoptera

ad ♂

Phalaropus fulicarius - 55.8g. t=2x1, far mod.

>100 sm. ad. diptera

2 (?) Dytiscid larvae





MacLean  
1966  
✓

## Stomachs

29 July]

ad ♂

Phalaropus fulicarius - 53.5g. t=3x1, fat sandy  
sm. ad. Dipterans - many fragments.

2 August

### Barrow, Alaska

imm ♂

Calidris pusillus - 22.9g.

40 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 25.1g.

80 ± sm. Chironomus larvae

imm ♀

Calidris pusillus - 24.7g.

30 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 22.5g.

50 ± sm. Chironomus larvae.

PDEB 537, imm ♀

Calidris pusillus -

40 ± sm. Chironomus larvae

imm ♂

Calidris pusillus 24.6g.

60 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 26.0g.

120 ± sm. Chironomus larvae

2 sm. ad. Diptera



Maelen  
✓ 1966

Stomachs

[2 August] in ♀ Calidris pusillus - 27.8g.  
15 Sm. Chironomus larvae

6 August

554 imm ♀

Barrow, Alaska

Calidris melanotos

15 Chironomus larvae (sm.)

2 Ichneumonids (a.s.)

555 imm ♀

Calidris melanotos

30 Sm. Chironomus larvae

1 Ichneumonid

1 Spider

556 imm ♂

Calidris melanotos

Trichoptera larvae

other, unidentifiable organic matter

10 August

557 imm ♀

Barrow, Alaska

Calidris melanotos

6 ~~large~~ large Chironomus larvae

plant + misc. organic matter.

11 August

558 imm ♂

Calidris melanotos

40 large Chironomus larvae



MacKen  
1966

# Stomachs

13 August

Birnirk, Barrow, Alaska

560 imm ♂

Calidris alpina

5 large Chironomus larvae

12 August

Barrow, Alaska

563 imm ♂

Calidris melanotos - 62.8g. t = 2x1,  
far lighter. trapline X - 8.8

50 large Chironomus larvae

2 Trichoptera larvae

15 August

Barrow, Alaska

564 imm ♂

Tryngites subruficollis - 60.1g. SN 273

3 Spiders

5 ~~3~~ Tenthredinid larvae

1 ad. muscid

2 ad. Ichneumonids

1 Carabid ad.

imm ♂

Calidris melanotos - 67.7g

26 small Chironomus larvae

(but they are large small ones.)

1 ad. Staphylinid

5 mites!



Machens  
✓ 1966

# Stomachs

18 August

571 mm ♀

Barrow, Alaska

Pluvialis dominica - 153.3g. Fat heavy.

1 Tenthredinid larva

12+ Dytiscid larvae

1 ad. Carabid

1 ad. Ichneumonid (wing)

1 ad. Muscid (wing)

1 ad. Chironomid (wing)

20 August

565 mm ♂

Barrow, Alaska

Limnodromus scolopaceus - 104.5g.

5 large Chironomid larvae

3 ? " "

566 mm ♂

Limnodromus scolopaceus

1 large Chironomid larva

much plant material

imm

Limnodromus scolopaceus

2 large Chironomid larvae

1 ? " "

23 August

568 ad ♀

Barrow, Alaska

Calidris alpina - 61.0g. Trapline II-B

9 small Tipula larvae

fragments of ad. Carabid





Maclean  
1966

Shanley

569 ad ♂

Calidris alpina

10 + small (?) Tipula larvae

5 large Chironomus larvae - old

31 August

imm ♂

Barrow, Alaska

Pluvialis dominica - 158.0g. for feeding  
SN 276.

39 + large Prionocera larvae

9 large Chironomus larvae

1 long, skinny annelid (?) - as seen.

18 + large Pedicia larvae

large quantity of mixed Prionocera +  
Pedicia larval material.

imm

Calidris alpina - 62.3g.



Machea

✓ 1966

## Shorebird Stomachs

52) C. melanotos - ♂ - 11 July, 1965, #2 - SM 426

1 Prionocera pupa

1 Chrysoline lar.

1 Carabid adult - fresh

1 Carabid adult - parts

3 Spider

Chironomid as-wing

Spillogona wing.



6 August

Univ. Alaska

802 ♀

Clethrionomys rutilus

18.7g

122-26-17-12

803 ♂

Clethrionomys rutilus

12.1g

115-26-19-11 . Prep. by Don L. Beaver.

804 ♂ ad.

Thomomys thomomys

t = 2mm, few lighter, v. heavy molt

122-26-17-12

115-26-19-11

122-26-17-12

10

2.1

15

11

11

2.1



Maclean

1967-

1968

# Specimen Catalog

9 December

1 mi. S.E. of Pt. Isabel, Alameda County, Calif. -

851 ♂ ad. Calioptila mauri  $t=1\text{mm}$  14.9g. -

[Died of starvation in captivity.] 21.6/4.0/3.6 -

7-10 April,

1968

following collected by F.A. Pitelka at his home -

Queens Rd., Berkeley, Alameda Co., Calif. -

852 ♂ Pipilo fuscus 50.3g -

853 ♂ Pipilo fuscus 54.6g -

854 ♀ Pipilo fuscus 49.1g -

855 ♀ Pipilo fuscus 51.8g -

Used for plumage wt. and fat determinations. -

24 April

Leslie Salt Co. Property,

856 [♂?] Calioptila alpina [ $t=1.5\text{mm?}$ ] 54.5g. -

pre-nuptial molt ± complete. light fat. -

36.6/5.3/4.1

857 ♂ C. alpina  $t=3\text{mm}$ . light fat. 53.4 -

pre-nuptial molt ± complete. 35.1/5.9/4.5

Used for feather wt. and fat determinations. -

28 May

Eagle Summit, Mile 108 Steese Highway, Alaska

858 ♂ ad. Aphriza virgata  $t=16\times 7$ ; fat light. 146.5g. -

859 ♀ ad. Aphriza virgata ova 17, 8, 6, 5. 193.4g. -

oviduct distended; fat moderate.





Macler  
✓ 1966

## Shorebird Stomachs

16 October

SN 458 juv. Calidris alpina - 15 August, 1965

1 ad. ♀ Tipula

1 wing - small muscio adults

1 wing - chironomid adults.

much unid. organic animal material

SN 444 - ad ♀ C. melanotos - (6) : 25 July, 1965

1 Prionocera larva - 18 mm.

2 ad. Dytiscos

2 Dytiscio larvae

Wings - muscio ?

SN 437 - ad ♀ C. alpina - 20 July, 1966

tipulid eggs - few

fragments of adult Carabid

fragments of adult tipulid

SN 442 - ad ♀ C. melanotos - (B) - 25 July, 1965

2 ad. Muscio

2 ad. ♀ tipulids (tipula ?) ± fresh

fragments of many ad. tipulids,  
including many eggs.

3 ad. Hemiptera (salicidae)

~~3 unident. (muscio ?) - same~~

1 Chrysolina fragment

1 ad. Carabid



Machean  
1966

## Shorebird Stomachs

✓  
6 October

SN 446 ♀ Pluvialis dominica - (#1) : 25 July, 1965

esophagus - 1 ad. Chrysolina  
stomach:

16 tipula larvae - large (::)

1 ad. Chrysolina

5 ad. Carabios

Several ad. Tipulids, inc. many eggs

1 Scolioae - Hemiptera

SN 448 ♂ P. dominica - 28 July, 1966

7+ large Prionocera larvae

1 ad. Plecoptera

1 ad. Chrysolina

fragments of adult tipulid

SN 449 ♀ P. dominica - 28 July, 1965

3 Pedicia larvae

20+ tipula (::) larvae (saved 1)

ad tipulid (wing)

SN 447 ♀ P. dominica - (#7) 25 July, 1965

8 & ad. Chrysolina

2 ad. Muscis

thick mixture of ad. Diptera parts  
ad. Chironomids, Tipulids, and eggs.



Maehren  
1966

## Shorebird Stomachs

16 October

SN 433

♂ C. melanotos - I : 11 July, 1965

12 large Chironomid larvae

1 small Prionocera larva

fragments of ad. Carabid

SN 431

♂ C. melanotos - I : 13 July, 1965

10 large Chironomid pupae or adults

20 small Chironomid adults

30+ ~~small~~ <sup>large</sup> Chironomid larva

SN 428

ad. ♀ C. alpina - 11 July, 1965

5 tipulid (large) pupae -

2 large tipula larvae

2 small tipula larva

2 Carabid larvae

Spider (Lycosid)

SN 450

♀ P. dominica - 28 July, 1965

30+ large tipula larvae

2 Staphylinids

1 Spider (Lycosid)

ca. 5 ad. tipulids

4 Dytiscid larva

Muscid wings



Maclean  
1966

# Shorebird Stomachs

16 October SM 478 Imm. Limnodromus scolopaceus (#3): 22 Aug '65.

ca. 40 small Chironomid larvae

SM 476 Imm. L. scolopaceus - 22 August, 1965

ca. 10 small Chironomid larvae

SM 470 Imm. L. scolopaceus - 20 August, 1965

3 Large Prionocera larvae

1 Small Prionocera larva

5 Pedicia larvae

1 Muscid larva

2 Small Chironomid larva

SM 468 Imm. L. scolopaceus - 20 August, 1965

2 large Prionocera larvae

SM 471 Imm. L. scolopaceus - 20 August, 1965

Small Muscid larva

small Chironomid larva

SM 438 ♂ Phalaropus fulicarius - 20 July, 1965

Esophagus:

82 Chironomid adults

1 Muscid adult

stomach:

hopeless tangle of ca. 100 ad.  
Chironomids.





Machan  
1966  
✓

## Shorebird Stomachs

8 October SN 445 ♂ C. alpina - ~~#4~~ (#4): 25 July, 1965  
fragments of adult tipulis, inc. eggs.

RBH #1 C. alpina - 15 June, 1965  
tipula pupa  
fragments of ad. Carabid (1 ad.)  
Spider (? sauv. - asper SN 296)  
old tipula larva.

SN 459 Imm. P. dominica - 13 August, 1965  
1 ad. Chrysolina  
3 ad. Carabids  
2+ ad. Muscids  
1 Chrysomelid larva  
1 Carabid larva  
fragments of adult tipulis, inc.  
many eggs.

SN 451 Juv. C. alpina - 30 July, 1965  
ca. 6 Trichoptera larvae  
Lemmus tooth  
fragments of adult Chrysolina

SN 432 ♀ C. melanotos - 11 July, 1965  
2 Dytiscid adults  
3+ tipula pupae  
1 Muscid pupa  
1 ~~fragments of~~ ad. Carabid



Maclean  
✓ 1966

## Shorebird Stomachs

18 October

SN 432 - cons

1 small mollusc - ca 2mm, coiled

2 spiders (as per SN 296)

SN 440 ♀ C. melanotos - (#8) : 25 July, 1965

4 ad. Chironomids + many fragments.

SN 445 ♂ C. melanotos - (#5) : 25 July, 1965

108+ ad. Plecoptera

mixture of Diptera wings -

ca. 100 flies - tipulids, Muscids  
and Chironomids.

SN 427 ♂ C. alpina - 13 July, 1965

13 nematodes - 5-8mm

fragments of adult Carabid

SN 441 ♂ C. melanotos - (#3) : 25 July, 1965

many fragments of adult tipulids -  
ca. 50 animals. those identifiable  
are Tipula.

21 October

PDB 438

Wings of ad. Chironomids

legs of ad. tipulids, and wing fragments



Maehren  
1966

## Shorebird Stomachs

21 October

SN 439 - ♂ Phalaropus fulicarius - 20 July, 1965

esophagus:

5 ad. Plecoptera

5 ~~very~~ v. small (2-3 mm) ad. Dipterans

63 ad. Chironomids

Stomach:

tangle of many, many ad. Diptera -  
mostly Chironomids.

(No definite evidence of tipulids)

SN 454 - ♂ P. fulicarius - 29 July, 1965

1 (+?) ad. tipulid

2 (+?) ad. Muscids

Many fragments - adult

Chironomids and other Diptera

SN 453 ♂ P. fulicarius - 29 July, 1965

fragments of adult Diptera,

inc. tipulid eggs.

2 Trichoptera larvae

SN 429 ♂ P. fulicarius - 13 July, 1965

3 Tipula pupae

1 Plecoptera adult

fragments of adult Diptera



Maehren  
1966

## Shorebird Stomachs

21 October

SM 475 Imm. P. fulicarius - 22 August, 1965  
45 + Small (ca. 8mm) Trichoptera larvae.

FAP - Phalaropus fulicarius - 3 July, 1965

Voith Slough:

2 Dytiscid Ads.

5 large Prionocera larvae

1 large Chironomid larva

4 small Chironomid larvae

1 trichoptera larva

FAP - P. fulicarius - 3 July, 1965

1 large Prionocera larva

6+ Trichoptera larvae

2 Small Chironomid larvae

1 small Lycosid spider

FAP - P. fulicarius - 3 July, 1965

24 large Chironomid larvae

4 small Prionocera larvae

small Chironomid larvae -

too far gone to count - ca. 20

FAP

P. fulicarius - 3 July, 1965

4+ trichoptera larvae

1+ large Chironomid larva





Maelea  
1966

# Shorebird Stomachs

21 October

FAP

P. fulicarius - 3 July, 1965

22 large Priacma larvae

1 trichoptera larva



Maelesh  
1966

## Shorebird Stomachs

16 October

SN 379

2 tenthredinio larvae - ca. 7mm.

fragments of Chrysolina

3 bees - two-pronged mandibles. = Ichneumon

v. small wings

fragments of adult insects.

SN 380

5 large Chironomus larvae

12 small Chironomus larvae

SN 381

4 ~~3~~ Tenthredinio larvae

fragments of Chrysolina

1 small bee, as 379. Ichneumon?

fragments of tipulis wings.

Few fragments of ad. Cerabis.

SN 382

5 Small Chironomus larvae

SN 383

7 large Chironomus larvae

SN 384

fragments of adult Cerabis

1 ad. Staphylinus



Maclen  
1966

# Shorebird Stomachs

16 October

SN 378

45 large Chironomus larvae  
(giants, to 20 mm!)

SN 300

1 as. Chironomus.

SN 317

2 tenthrionid larvae

4 heads, as 379. Note 2 prominent  
median ocelli. = Ichneumonidae  
also wings.

SN 314

many (ca. 25) s/o small Chironomus  
larvae - too tangled to count.

1 tipulid egg.

SN 297

fragments of as. tipulids, inc. eggs -  
several animals.

1 small Chironomus larva.

SN 296

4 as. Muscivora

1 + 1 ♀ tipula, inc. eggs.

2 Spiders

1 as. carabid



Machean  
1966

# Shorebird Stomachs

6 October

SN 296 (cont.)

1 ad. Plecoptera

8 October

RT 222 ♂ Tryngites subruficollis - 53.2g. 12 Aug., 1964

1 tenthredinid larva

2 Lycosid spiders

1 v. large collembolan

fragments of adult Chironomus.

RT 223 ♀ Limnodromus scolopaceus - 104.5g. 12 Aug., 1964

5+ (many) large Chironomus larvae

RT 224 ♀ imm. C. alpina - 53.4g. 12 August, 1964

trichoptera larvae - all fragments -

but = many larvae.

1 small Chironomus larva

RT 225 ♀ imm C. alpina - 52.8g. 12 August, 1964

do fragments of large Chironomus larvae

1 trichoptera larva

RT 229 imm. C. pusillus - 22.7g. 12 August, 1964

25 small Chironomus larvae

RT 230 ♂ imm. C. pusillus - 22.1g. t=1x2mm; 12 Aug, 1964

50 small Chironomus larvae

1 trichoptera larva





Maclean  
1966  
✓

# Shorebird Stomachs

18 October RT 231 Imm. C. fuscicollis - 35.0g. 12 August, 1984  
2 large collembolans  
15 small Chironomus larvae  
1 unknown (sovere)

RT 224 ♀ imm. C. alpina 53.4g.  
~~(sic 2, same number)~~ 12 August, 1984

1 small Chironomus larva

1 October SM 346

1 as. Ichneumonius  
fragments of as. Chrysoline  
tentheronius larva

SM 343

7 small Chironomus larvae (obs)  
2 large Chironomus larva  
1 as. tentheronius wing.

SM 345

2 + tentheronius larva  
1 as. Chironomus  
several wings of as. Ichneumonius  
ca. 100 tipulis eggs



Maclean  
1966

# Shorebird Stomachs

21 October

SN 338

11 + Trichoptera larvae  
1 small Chironomid larva.

SN 344

2 Muscivora larvae - 9mm.  
much plant material.

SN 343

> 1 Chironomid larva - small, old.  
Collembolan

SN 252

2 ad. Pedicia  
1 ad. Staphylinid  
1 ad. Hemipteran (old)  
2 large spiders  
1 small spider  
2 small ad. Diptera

~~SN 260~~

SN 260

3 (+ many fragments) sm. ad. Diptera.

SN 263

Fragments of ad. Diptera  
ca. 150 + tipulid eggs.



Maclera  
1966  
✓

# Shorebird Stomachs

21 October

SN 262

fragments of as. Diptera, inc.  
tipulid eggs.

SN 261

1 ♀ as. Tipula  
1 ♀ as. Pedicia  
2 Unident. Crane flies.  
4 + Small as. diptera  
plus. misc. diptera fragments.

SN 248

many fragments of as. Diptera -  
unintelligible stew.  
includes tipulid eggs

20 October

SN 267

3+ Muscid pupae  
fragments of as. tipulids, inc. eggs.

SN 264

fragments of as. tipulids, inc. eggs.  
1 fragment of trichoptera larva

SN 265

as. Staphylinid  
Fragments of as. Chironomids  
Fragments of as. tipulids, inc. eggs.



Moehren  
1966

# Shorebird Stomachs

22 October

SN 266

fragments of *ao. Tipulid*, inc. eggs (ca. 100)

5 July,  
1964  
==

12+ 183 ♀ *Limnodromus scolopaceus* - 127.5g, lg. fol 4mm, for m

4+ large *Priocera* larvae

2 meiscio larvae - ca. 10mm.

1 *ao. Carabid*

30+ large *Chironomid* larvae (obs)

23 October

SN 270 ~~♀~~ ♂

*ao. Staphylinid* - fresh

unident. fragments of wings

SN 269

many fragments of *ao. Tipulid*, inc. eggs.

2 ~~fragments of~~ *ao. Carabid* (heads)

SN 271

fragments of *ao. Tipulid*, inc. eggs.  
hemus bone

SN 272

soup of *Tipulid* fragments, inc. eggs.

SN 277

*ao. Schneumonia*

2 *ao. Tipula* - ♂ + ♀ ~~post.~~ <sup>post.</sup> ~~end.~~ <sup>end.</sup>

*ao. Carabid* - fresh





Maehre  
1966

# Shorebird Stomachs

23 October

SM 277 (cont.)

fragments of as. Tipulis, inc. eggs.

SM 278

few v. sb fragments of as. tipulis,  
inc. ca. 15 eggs.

few v. sb carabid fragments.

SM 279

ca. 160 Tipulis eggs

hess - as. Ichneumonid (?)

small fragment of as. carabid

SM 280

fragments of as. Tipulis, inc. eggs.

RT 184 as ♂ C. fuscicollis, 39.3g, t=4x7mm, fat light.

6 July,  
1964

2 large Chironomid larvae

fragments of as Tipulis, inc. eggs.  
inc. ♀.

SM 283

4+ as. Tipulis, plus many frags, eggs

2 Carabid larvae

1+ as. Plecoptera

fragments of few as. Chironomids



Maeda  
1966

# Shorebird Stomachs

23 October

SN 284

2+ ad. tipulids (fragments, eggs)  
1 ad. Muscio  
fragments of ad. Ceratid  
1 ad. Chironomid

SN 285

Few fragments of ad. tipulid, inc. cal eggs

SN 286

ad tipulid parts, inc. eggs.  
fragments of adult ceratid

SN 287

many fragments of ad. tipulid, inc. eggs  
1 ad. Muscio  
fragments of ad Chironomid.

SN 288

fragments of ad. tipulid, inc eggs.  
2 ad. Ichneumonids (heads)  
fragments of ad. Ceratid



Macler  
✓ 1966

# Shorebird Stomachs

28 October

SN 289

fragments of as. tipulid, inc. eggs

SN 290

2 ± as. tipula (♀, ?), inc. eggs.

43+ as. Chironomids

fragments of as. Chrysolina

SN 292

fragments of as. tipulid - inc. at least  
2 batches of eggs (some dark, some light)

∴ 2 as.

1 as. Carabid - head

SN 293

4 as. Chrysolina

1 as. Carabid

2+ as Muscid

1 Spider actually > 2.

at least 2 as. tipulids, w/ eggs.

1 as. Ichneumonid

SN 294

3 as. Chrysolina

1 Spider

Lemmus teeth and bones

2 as Carabids



Machean  
1966

# Shorebird Stomachs

28 October

SN 294 (cont)

many as Tipulids, inc. eggs.

6+ as Muscids

1 large Priocera larva

2 unis. abdomens - saved

SN 322

7100 small as. Chironomids

SN 323

3 Trichoptera larvae - fresh

12 Trichoptera larvae - old

4 Muscid larvae - ca. 12 mm.

large chironomid larva

10 large plant seeds - orange.

remnants of old Priocera larva

SN 326

1 wing of v. small Chironomus as.

1 v. large Collembolan

3+ as. Ichneumonids - small

SN 328

1 ~~2~~ large as. Carabid - fresh

2+ as. Ichneumonids

1 large spider

2+ tenthredinid larvae

2 Carabid adults - older





Maclean  
✓ 1966

## Shorebird Stomachs

28 October

SN 329

1 Chrysolina larva  
fragments of Chrysolina adults.  
3 ~~2~~ Tenthredinid larva  
3+ as Ichneumonids  
1 as. Carabid

SN 330

1+ fragments of as. Chrysolina  
1+ frag. of as. Carabid  
4+ as. Ichneumonids

SN 331

1 as. Dytiscid  
ca. 10 (do) large Chironomid larvae.

SN 332

10 Trichoptera larvae  
ca. 25+ large (?) Chironomid larvae

SN 333

Small spider  
fragments of as. Carabid  
ca. 20 large Chironomid larvae



Maclen  
1966

# Shorebird Stomachs

28 October

SN 334

15 trichoptera larvae  
6+ large Chironomid larvae  
several small Chironomid larvae

SN 335

cd. 20 large Chironomid larvae

SN 336

14+ Trichoptera larvae  
3 large Chironomid larvae  
cd. 20 plant seeds 1-1.5 mm.

SN 337

9+ Trichoptera larvae  
cd. 20 (old) large Chironomid larvae

30 October

1964

trapline sample:

001

Tipulid eggs - several ages  
frag. of as. Tipulid  
3 as. Schremonia - heads

002

9+ small as. Diptera (Chironomids)  
(sev.) frag. of as. Tipulid, inc. eggs.  
1 as. Schremonia - head.



Maclean  
1966

# Shorebird Stomachs

[1964 Trapline]

30 October 003

3+ Large as. Chironomus  
1 as. Ichneumonius  
frags. of as. Tipulis, inc. eggs.

004

1 as. Muscia - large  
ca. 50+ as. Chironomus - small  
Tipulis eggs.

005

40+ as. Chironomus - small.  
fragments of as. Tipulis, inc. eggs.

006

3 Trichoptera larvae  
as. Chironomus - 10+ many fragments  
frags. of Tipulis as, inc. eggs.

026

- C. melanotos - VII; 7.4; 19 July, 33.5g.  
all too old to identify.



Machens  
1966

# Shorebird Stomachs

(1964 trapline)

1 November 007

Esophagus: 1 ad Muscio  
1 ad Chironomus  
2 ad Ichneumonius  
Stomach: 2 ad. Muscids  
5 ad. Chironomus  
5+ ad. Ichneumonius  
tipulis eggs (aas.?)  
many fragments of ad. Diptera

009

2  
2 ad. Chironomus  
3 do trichoptera  
tipulis eggs

010

1 ad. Muscio  
2 ad. Chironomus  
1 v. small ad. Diptera  
1 spider  
1 ad. Tipulis

011

14+ ad. Chironomus + do fragments  
1 trichoptera larva





Maechen  
1966

# Shorebird Stomachs

[1964 trapline]

1 November

012

10+ many small ad. Chironomids  
1 ad. Muscio

ca. 100 small orange eggs or seeds - 1 mm.  
(saved a few)

fragments of larger wings

013

empty

014

5+ sm. ad. Chironomids

2 Collembolans

1 ad. Muscio

misc. fragments of adult pterygotes.

2 November

015

fragments of ad. Tipulids, w/ our eggs

1 ad. Muscio

1 ad. Chironomid

016

fragments of ad. Tipulids, w/ our eggs  
fragment of ad Muscio wing



Maclenn  
1966

# Shorebird Homestead

[1964 trapline]

2 November 017

3 ad. Trichoptera

3 ad. Muscios

2+ ad. Tipulids - fragments, w/ few eggs.

018

1 Spider

2 ad. Ichneumonids

1 sm. ad. Staphylinid

1 ad. Muscio - wings

few tipulid eggs.

019

ca. 10 do trichoptera larvae

020

1 fresh grasshopper ♀ Tipula

10+ ad. Ichneumonids

8 ad. Chironomids

6 ad. Muscios - large

1 ad. Tenthredinid

10 November 021

10+ do trichoptera larvae

few do Tipulid eggs



Macler  
1966-67

# Shorebird Stomachs

[1984 trapline]

10 November 022

3 spiders

1 ad. Staphylinid

1+ ad. Muscid

1 tenthredinid larva

fragments of several ad. tipulids.

includes both large and small

(Pedicia ?) eggs, in equal numbers.

2+ ad. Ichneumonids

023

1+ ad. Muscid

1+ ad. Ichneumonid

fragments of ad. tipulid.

024

few ad. tipulid eggs

025

frag. of adult Chrysobothris

frag. of adult tipulid.

\* 26 (no eggs)

13 January 027

3 trichoptera larvae

frags. of ad. Chironomid

frags. of ad. tipulids, inc. eggs

2+ ad. Muscid + frags.



Maclaren  
1967

# Shorebirds Stomachs

[1964 trapline]

5 January

028

Calidris melanotos

3 ad. Muscids

1 ad. Tipula

10+ ad. Ichnumonius

2+ ad. Chironomus

2 spiders

1 ad. trichoptera

+ many ad. diptera fragments.

031

C. alpina

1 lemmus molar

030

ca. 10 ad. Trichoptera

1 ad. Muscid

1 ad. Ichnumonius

029

C. melanotos

6 ad. Muscids

ca. 12 ad. trichoptera

7 trichoptera larvae

1 ad. ♂ Prionocera

16 January

032

C. alpina

too old - soup of ad. diptera parts.





Maehren  
1967  
✓

# Sharebino Stomachs

[1964 trap line]

16 January

033

C. alpina

2+ ad. Tipulios, inc. eggs

3+ ad. Muscios

1 ad. Carabio

5 Spiders

034

C. melanotos

frags. of ad. Chrysolina

frags of ad. Carabio

2+ ad. Tipulios, inc. eggs.

soup - mostly ad. Diptera.

035

C. melanotos

tipulid eggs - at least two batches -  
total of ca. 75.

036

C. melanotos

+ F.G. - nothing recognizable

037

C. melanotos

ditto

038

C. melanotos

fragment of lemmus tooth

ca. 100 tipulid eggs (prob. 2 batches -  
some newer, larger.)



Maclean  
1967

# Shorebird Stomachs

[1964 trapline]

16 January

039

C. melanotos

1 tipula pupa

2+ as. Chironomids

2+ as. Muscio

2+ as. Tipulids, inc. ca. 100 eggs.

040

C. melanotos

2 as. Muscids

1 as. Trichoptera

1 as. Carabid

3 Trichoptera larvae

ca. 100 tipulid eggs.

042

C. melanotos

5+ as. Muscids

5+ trichoptera larva

3+ as. Chironomid

fragments of as. tipulid, inc. 100+ eggs.

043

C. melanotos

2+ as. tipulids, inc. ca. 150 eggs.

2+ as Chironomids

1+ as. Trichoptera

044

C. melanotos

5+ as. Muscids

1 spider

2+ as. tipulids, inc. 150 ± eggs.



Maehren  
1967

# Shorebird Stomachs

[1964 traplines]

16 January

045

26.4 g.

3+ ad. tipulids, inc. ca. 80 eggs.

1+ ad. Musciv

3 ad. Ichneumonids

1 ad. Carabid

046

C. melanotos

2+ ad. Musciv

1+ many ad. tipulids - inc. ca. 50 eggs

Lemmus tooth

2+ ad. Ichneumonids

1 ad. trichoptera

047

C. melanotos

6+ ad. Musciv

2 ad. tipulids, inc. ca. 50 eggs.

1 ad. trichoptera

1 frag. of ad. Carabid

30 small trichoptera larvae - sb

4 ad. Chironomids

048

C. melanotos

ca. 6 ad. tipulids, inc. ca. 100 eggs.

wing of ad. Ichneumonid

1 spider



Mochean  
1967

# Shorebird Stomachs

[ 1964 traplines ]  
~~2 traps~~

17 January

049

C. melanotos

2 ad. Muscivora

2+ ad. Tipula - many frags, ca. 150 eggs

2 hemus molars

5 ad. Ichneumonius

1 frag. of ad. Carabid

050

C. melanotos

5+ ad. Muscivora

2 trichoptera larvae

4+ ad. trichoptera

frags. of ad. tipulids, inc. ca. 200 eggs.

051

C. melanotos

9 ad. Muscivora

3 ad. Chironomus - fresh

4+ ad. tipulids - old - inc. ca. 20 eggs

1 spider

2+ ad. Ichneumonius

052

C. melanotos

2 ad. Muscivora

frags. of ad. tipulids, inc. ca. 50 eggs.

053

C. alpina

absolute nothing!





Maclean  
1967

C. alpina - stomachs

✓

10 June

SN 715 :

2 Tipula larvae

unident. large pupa - prob. Hymenoptera

SN 716 :

3 Tipula larvae

1 ad. Staphylinid

unident. material - as above

12 June

SN 713 :

6 Pedicia larvae

1 Prionocera larva

1 Tipula larva

1 ad. Ickneumon (chalcid)

1 ad. Carabid

SN 714 :

8 fresh Pedicia larvae

(2 in esophagus)

7 other Tipula larvae

1 Muscid larva

1 Carabid larva

16 July

FAP C.a. 67-7 :

(juv. - trapline II - 6.6)

bone fragments

ad. Tipulid pupa

ad. Nematocera

cup - can't count, prob. more Tipulids.

(appear to be Tipula!).



Maclaren  
1967

C. pusillus - stomachs

✓

18 June

SN 716

Lemmus bar.

40(ca.) Chironomus larvae



MacLean  
1967

C. pusillus - Stomachs

28 June

sn 745

:

30

sm. Chironomid larvae

15

sm. ad. Diptera

3

Collembolan

frags. of ad Carabid



✓  
Madsen  
1967

C. bandii - stomachs

26 June

SN 742 :

1 ad Carabio

6 July

FAP 679 :

16 + many eggs - 20. Chironomids

bag - of ad Carabio

1 Muscio pupa

20 tipulid - eggs.





✓ Maelen

1967

C. melanos

- Stomachs

8 June

SN 701 :

32 ~~as.~~ Tipula larvae

1 Tenthredinid larva - 14 mm

2 Muscio larvae - 10 mm

SN 702 :

2 Tipula larvae

1 Muscio larva

1 sm. Chironomid larva

SN 703 :

15 Tipula larva

3+ Prionocera larva

3 sm. Chironomid larvae - 10 mm

8 Muscio larvae - cd. 11 mm.

1 Mite

18 June

SN 718 : ♀

7 Tipula larvae

SN 719 : ♂

10 Tipula larvae

3 ad. Carabids

SN 720 : ♂

6 Tipula larvae (fresh - 16 mm)

19 Pedicia larvae

3 Spiders

7 ad. Carabids

3 Muscio pupae



Machens  
1967

C. inchantes - stomach

SN 721: ♂

2 <sup>lar.</sup> ~~to~~ Prionocera - 29mm.

1 lar. Tipula

ca. 26 lar. Pedicia

1 sm. Plecopteran

3 Muscio pupae ca 282

17 June

SN 722:

15 Tipulid larvae

3 Pedicia larvae

1 spinner

1 Prionocera larva

20 June

SN 725:

6 Pedicia larvae

2 Tipula larvae

1 ad. Carabid

21 June

SN 726:

1 Prionocera larva

ca. 20 Chironomid larvae - old,  
(prob. large red)

SN 727:

71 sm. ad. Dipterans

1 Prionocera larva

2 old Chironomid larvae  
(prob. large red)

SN 728:

8 Tipula larvae

SN 729:

1 Muscio pupa

(remainder beyond recognition)



Maehren  
1967

C. melanotos - stomach

[21 June]

SN 730:

30+

Pedicia larvae

- Muscio pupae

5+ lg. (red.) Chironomus larvae

24 June

SN 734:

4 Prionocera larvae

3 Pedicia larvae

2 Tipula larvae

2 ad. Carabio

2 ad. Muscios (?)

SN 735:

3 Muscio pupae

1 ad. Staphylinio

1 Spider

1 Tipula pupa

ca. 20 Pedicia head capsules

SN 736:

1 ad. Staphylinio } fresh

1 Tipula larva } fresh

3 Muscio pupae

ca. 10 quite dr Pedicia head capsules.

SN 737:

2 ad Muscios (wings)

25 June

SN 738:

1 Spider

2 ad. Carabios

1 Tipula pupa



Wachson  
1967

C. melanotos

SN 739:

5 Pedicia larvae

1 Muscio pupa

2 spiders

1 m. Carabid

30 June

SN 748:

13 Prionocera larvae

2 Spiders

4 Muscio larvae

1 Chironomid larva

SN 749:

4 Prionocera larvae

many Lemmus bones

1 Spider

1 Chironomid larva





✓  
Machin  
1967

C. alba - stomachs

8 June

SN 704 :

11 Tipula larva

3 Musca larva



Maclean  
1967

t. subruficollis - stomachs

✓

18 June

FAP 67-1 : trapline I-II

1 Tipula larvae

1 Tenthredinid larva

4 Spiders

limbs both anchored

1 July

FAP 67-3 :

1 Caddis adult

many ad. Chironomids

fewer ad. Tipulids - inc. eggs.

(eggs are small - prob.

Pedicia)

1 (+?) ad. Hymenopteran - looks  
like Ichneumonid.

FAP 67-4 :

25%  
ret. ( 5 ad. Chironomids

( 1 ad. Tipulid (Pedicia?)

inc. eggs.

July

FAP 67-5 :

2 fresh Tipula pupae

2 do " pupae

3+ ad. Tenthredinids

1 ♂ Pedicia ad.

73+ ad Chironomids

1 Spider

Tipulid eggs, and frags  
of adults.



Maheen  
1967

T. subruficollis - stomachs

5 July

FAP 67-6 :

3+ Tipula (?) pupae  
1 no ♀ Tipula, w/ eggs.  
8+ no. Cicadomimus  
1 Spider  
1 no. Staphylinus  
bags, inc. no. Tipulids

FAP 67-7 :

3 Tipula pupae  
1 Muscio pupa  
7+ no. Leptocryptus  
6+ no. Tipula  
1 no. Muscio

FAP 67-8 :

beetles

no. Carabid  
no. Tipulid, inc.  
two eggs.  
no. Leptocryptus  
Spider



Macleran  
1967

P. fulvicornis - stomachs

10 June

SN 707:

- 1 Chironomid larva
- 1 sm. spider
- 1 sm. Muscid larva

SN 708:

- 3 ~~Tipula~~ <sup>Pedicia</sup> larvae - 12mm
- 1 Imago - > 1mm.

SN 709:

- 7+ ~~Muscid~~ <sup>Pedicia</sup> larva
- ~~1 sm. tipula larva (base)~~

SN 710:

- 3 fresh Pedicia larvae
- 3 Muscid larvae
- 1 sm. larva - small, not identified

711:

- 23 Pedicia larvae - small
- 1 Tipula larva
- 3 Primiceria larva - large

SN 712:

- 1 l. Primiceria larva
- 1 Tipula larva - sm.
- 3 Pedicia larvae

12 June

SN 715:

- 2 Muscid larvae
- 1 ad. Carabid

17 June

SN 723: ♀

Esophagus:

- 3 Spiders
- 1 Chironomid larva





Maclean  
1967

Fulicarius - stomach

SN 723 (cont)

Stomach:

- 19 large red Chironomids  
(some v. fresh + in lower  
intestines)  
3 sm. Chironomids  
remains of mollusk shell

25 June

SN 740

:

++

ca 10

large red Chironomids

as. Diptera - wings.

Lemmus bone

SN 741

:

11

large red Chironomids

as. Chrysalis

Lemmus tooth + misc. bones.

30 June

SN 746:

ooops -

SEE Pl. dominica

~~10 Spiders - large~~

~~46 v. large, fresh Prionocera larvae~~

~~58 Pesicia larvae~~

~~1 Annelid~~

~~3 as. Chironomids~~

~~1 sm. Tipula larva~~



Maehlen

1967

P. domini - stomachs

18 June

SN 717:

8 Prionocera larvae

4 ad. Carabids

2 Tipula larvae

Lemmus bone

1 ad. Muscid

24 June

SN 735:

44+ Prionocera larvae

1 Prionocera pupa

1 Tipula larva

7 Pedicia larvae

2 Muscid larvae

1 Dytiscid adult

28 June

SN 743:

8 Prionocera larvae

fresh and giant!

1 Spider

25+ Pedicia larvae

1 Annelid

1 ad. Chironomid

SN 744:

15 Pedicia larvae

1 Muscid larva

4 Prionocera larvae

2 lg. Chironomid larvae

1 ad. Chrysotina



✓  
Haelew  
1967

P. dominica - Stomachs

30 June

SN 746 :

10 large Spiders

46 v. large Prionocera

larvae - some fresh

5 Pedicia larvae

1 Tipula larva - sm.

3 l. ad. Chironomids

1 annelid

SN 747 :

esophagus -

13 Prionocera larvae

20 - 32 mm.

5 Pedicia larvae

Stomach -

43 Prionocera larvae

8 Pedicia larvae

6 July

SN 750 :

1 Prionocera larva



Maheo  
1968

# Stomachs - collected 1967

AP C.m. 67-15: ✓

5 Prionocera larvae - large  
ca. 30 fresh + many old sm. Chironomus l.

AP C. 67-3: ✓

soup of ao. tipulidae, inc. eggs.  
[looks like mostly tipula.  
black eggs v. numerous.]

AP C.m. 67-14: ✓

9+ Prionocera larvae - not too fresh.  
3+ larval Dytiscidae  
3 Brachycera pupae  
several sm. Chironomus larvae - old  
several ao. Brachycera - wings.

A.P. C.a. 67-1 ✓

(18 July)

soup of ao. Diptera - looks like  
mostly smaller spp. of nematocera-  
Chironomidae, sensu lato.  
(no tipula eggs visible.)

F.A.P. 67-1 ✓

soup of ao. Diptera - mostly tipulidae,  
inc. yellow eggs.  
1 Brachyceran pupa

FAP 67-2 ✓

3++ ao. trichoptera  
♂ ao. tipula  
soup of ao. insect parts.  
ao. Brachyceran  
trichoptera larva





Mochar  
1968

# Stomachs - collected 1967

FAP 67-3: ca. 9 med. Prionocera larvae - old

most →  
abundant

ad. ♂ Pedicia, ad ♀ Pedicia

ad. ♀ Prionocera

1 ad. tenthredinid

1 large lycosid spider

1 Brachycera pupa

ad. ♀ Tipula - w/ black eggs.

[NOTE: Predominately ad. Tipulidae - esp. Pedicia]

FAP 67-4:

thick stew of ad. tipulidae - primarily (all?)  
Tipula

few v. sh Prionocera larvae

FAP 67-5:

1 ad. ♀ Tipula w/ black eggs.

thick stew of ad. insects - 1

think mostly Tipula.

1 Spider

1+ Brachycera

FAP 67-6:

mass of fresh ad. Tipula - both  
black and (fewer) yellow eggs.

frags. of ad Cerobio

FAP 67-7:

1+ ad. Brachycera

→ ad. insect material - mostly Tipulidae,  
Tipula.

1+ ad. Chironomus



Maclera  
1968

✓

Stomachs - collected 1967

FAP 67-8 :

Stew of ad. Tipulidae - I think Tipula  
inc. many eggs - or less 1 ♀ Tipula

FAP 67-12 :

Tipula stew - inc. eggs.

FAP 67-13 :

much: ad. tipulidae, w/ egg.  
1 spider  
1 ad. Carabid head



Maclera  
1968

Stomachs - collected 1967

SM 758:

1 tipula larva (ob)  
mostly frags. of ad. tipulids, inc. eggs.  
frags. of ad chironomids (few)  
1 Spioer  
1+ ad. Ichneumonids - 3mm long.

759:

♀ ad. tipula  
1 ad. Hymenopteran  
several ad. Brachycera (wings)  
several ad. tipulids - inc. eggs.

757

6 fresh Pedicia larvae (11-cs. 17mm) + many ob  
1 Priocera larva ob  
2 Brachycera larvae - 10mm  
ad. (?) Plecoptera  
2+ tipula larvae ob  
ad. Brachycera  
ad. tipulids - inc. eggs.  
misc. ad diptera - much.

[note: tremendous diversity, but Pedicia larvae  
prob. most important.]

FAP C.m. 67-16✓

2 sm. Chironomids larva  
several Trichoptera larvae

FAP C.m. 67-2✓

(18 July)

frags. of ad. tipulids - inc. eggs.



Machens  
1968

## Stomachs

4 June

871 ♂ ad

C. alpina

esophagus - 2 fresh Tipula larvae:

27, 18 mm.

stomach - 11 Tipula larvae

1 Staphylinus (?) larva

(head capsule v. flat w/  
large clypeus, large  
mandibles).

1 Arachnid (w/ hard,  
dentate exoskeleton)

872 ♀ ad.

C. alpina

2 + lemmus teeth

3 + frags. of bone

873 ♀ 1<sup>st</sup> year

C. alpina

1 lemmus tooth

2 frags. lemmus bone

28 June

924 ♂ ad.

C. bairdii

9 Tipula larvae - ca. 18-20 mm

29 June

927 ♂ ad.

C. bairdii

4 Tipula larvae





Maclean

✓ 1968

# Stomachs

959

♀ ad. tipula

2 ♂ ad tipula

2 ad. Muscids

✓ 4 trichoptera larvae

many frags. of ad. muscids & sm. ad. Diptera



Machin  
1968

Stomachs - collected 1968

- SN 936<sup>✓</sup>: ca. 250 Chironomus pupae & adults (ca. 25) (ca. 225 - slow)  
1 Brachycera pupa
- 899<sup>✓</sup>: 7 Brachycera larvae - ca. 9mm.  
1 trichoptera larva  
→ 6 large (>18mm) tipula larvae
- 898<sup>✓</sup>: 2 Brachycera larvae - ca. 8mm.  
→ 5 tipula larvae - large (ca. 20mm)  
1 Lycosid spider  
1 ao. Staphylinid.
- 894<sup>✓</sup>: 2 Carabid larvae  
2 do Pedicis larva  
→ 4 tipula larvae - (16-20mm)  
4 sm. Chironomus larvae
- 957<sup>✓</sup>: stew of ao. tipula, inc. many eggs.
- 923<sup>✓</sup>: zero, but for few frags. of ao. Carabid.
- 920<sup>✓</sup>: nearly zero; frags of ao. Carabid
- 916<sup>✓</sup>: nearly zero -  
1 Brachycera pupa  
ca. 8 sm Chironomus larvae - v. do  
frags. of shell of some marine mollusk.



Maclean  
1968

Stomachs - collected 1968

SN 924 :

2 Lemmus teeth + 16 misc. bones! +  
small fragments.  
frags. of ad. carabid.

919 :

1 Lemmus tooth; sm. frags. of bone,  
1 large bone frag.

942 :

4 ~~3~~ Spiders + fragments  
10+ large red Chironomid larvae  
2 Tipula larvae  
1 ad. Carabid  
1 Brachyera larva

874 :

8+ Tipula larvae - large  
6+ Pedicia larvae - > 15mm  
1+ ad. Carabid  
2 Brachyera larvae - 10mm

1003 :

soup of ad. tipulidae, inc. many eggs.  
also sm. ad. Nematocera - can't  
tell proportions, but prob. more ~~Tip~~  
tipulidae

965 :

tangle of v. sb. sm. chironomid larvae  
tipulis eggs, + frags. of ad. tipulis.  
ad. Hymenopteran (wing)



Machens  
1968

# Stomachs - collected 1968

SM 967:

1 ad. Brachycera

1 sm. ad. Nematoceva

most imp.  
± fresh. →

ca. 75 large red chironomid larvae

875:

Lemmus teeth and bones

2 Carabid larvae

few frags. of ad. carabid

v. old Tipula larvae

867:

1 Tipula larva - > 25mm.

frags. of Lemmus bone

frags. of ad. carabid - > 1.

866

ca. 10 plant seeds (too many of the  
same kind and too fresh for  
accidental ingestion. must have  
been purposive.)

[no Lemmus material.]

884:

frags. of ad. carabid

Lemmus bones

883:

1 Ad. Tenthredinid

1 Ad. Carabid

1 Ad. Staphylinid

1 Brachycera larva - 14mm

1 Lycosid spider

1 Tipula larva - 25mm

} very  
fresh

cont. over





Maeha  
1968

# Stomachs - collected 1968

883 - cont.

Diversity of very fresh material  
indicates that last feeding bout was  
highly opportunistic.

older material:

6 large Tipula larvae

108+ Pericia larvae - large - > 15mm

3 spiders

4 ad. tenthredinidae

frags. of ad. Carabio

882:

frags. of shell of marine mollusk.

frags. of ad. Carabio.

(no Lemmus material)

914:

many Lemmus bones and teeth

few frags. of shell of marine mollusk.  
tin foil!

(no recognizable food items)

879:

1 fresh Brachyura larva - 12mm

4 large Tipula larvae

1 Chironomus larva - fresh - 8mm.

ca. 10 " " - older

868:

2 Brachyura larvae - 10mm

1 old Tipula larva

1 Brachyura pupa

frags. of ad. Carabio



Maehren  
1968

Stomachs - collected 1968

863:

1 do Tipula larva  
ca. 8 do Pedicia larvae

862:

3 fresh Brachycera larvae - 8 mm.  
7 Tipula larvae  
few frags. of Lemmus bone  
frags. of as. Cerabio  
5 orange SEEDS.

861:

98 Tipula larvae - large  
3 Pedicia larvae - large, obese.  
1 Prionocera larva - large  
frags. of as. Cerabio  
1 do. Brachycera larva

940:

1 as. Chrysomelid - fresh  
6 Prionocera larvae  
1 large Chironomid larva  
10 Spiders  
3 Sm. as. Nematocera  
2 Brachycera pupae  
much plant material - could  
rep. trichoptera larvae  
frags. of as. Cerabio.

946

scup of as. Tipulidae - larger spp.  
(long wings - may be Prionocera.)



Maecher  
1968

# Stomachs - collected 1968

SN 947 :

thick stew of as. tipulidae -  
looks like larger spp.

956 :

as ↗

955 :

as ↗

1 as. Dytiscid

951 :

stew of as. tipulidae (mostly)  
sm. as. nematocera

950 :

mostly as. tipulidae  
some sm. as. nematocera  
(these are fresher)

905 :

10 fresh Pedicia larvae (13-16mm)  
15+ old Pedicia larvae  
3 Spiders  
1 trichoptera larva  
frags. of as. Carabid.  
frags. of as. tenthrionid

904 :

10 large Prionocera larvae  
1 Pedicia larva  
Spider  
2 as. Dytiscids  
Brachycera pupa  
Brachycera larva



Maclean  
1968

Stomachs - collected 1968

SN 903:

- 2 Tipula larvae
- 2 Prionocera larvae
- ca 20 Pedicia larva
- 2 Brachyera larvae
- 3 Chironomus larvae - small
- 1 Carabio larva
- 2 Brachyera pupae - small
- 7 Spiders
- 1 ad. Carabio

911:

- 100+ Pedicia larvae (14-18mm) <sup>ca. 60 of these fresh.</sup>
- 1 Prionocera larva (ca. 15mm)
- 11 Spiders
- 7 ad. Carabios (heads)

912:

- 28 + large (> 13mm) Pedicia larvae
- 3 Spiders
- 1 Brachyera pupa

918:

- 1 Tipula larva
- Carabio ad.
- ca. 10 obd Pedicia larvae (only heads  
capsules remain.)

941

- 4 Prionocera larvae - obd.
- ca. 20 Pedicia larvae - obd
- 3 ad. Carabios
- (cont-over) ca. <sup>20</sup> ~~15~~ sm. Chironomus larvae - mostly obd





March  
1968

Stomachs collected 1968

941-cont

1 ad. Dytiscid  
ca. 10 large chironomid larvae - v. sb.

939:

6+ Prionocera larva - sb - large

13 spiders

frag. of ad. tipulid, inc. few eggs.  
few sm. chironomid larvae - v. sb.

948:

Stew of ad diptera:

tipulidae, inc. eggs. (inc. many Pesicia)

sm. ad. nematocera

2 Brachycera pupae

1 Spider

949

Stew of ad diptera. mostly tipulidae <sup>larger sp. tipulid?</sup>

2+ ad. Brachycera

1 Brachycera pupa

952:

ad. Tipulidae - mostly Tipula

few frags. of ad. hymenoptera

900:

1 v. fresh ad. Carabid

9 large Prionocera larvae

2 large Pesicia larvae

1 Brachycera larva



March  
1968

# Stomachs - collected 1968

SN 901:

13 large-giant Prionocera larvae  
1 + trichoptera larva  
5 ad. Carabids  
? Pedicia larvae - 5 (head capsules)  
1 ad. hymenopteran  
1 Spider

902:

6 large Prionocera larvae  
4 Pedicia larvae - older  
2 ad. Carabids

944:

frags. of ad. Tipulidae, inc. eggs.  
frags. of ad. Carabid  
1 Spider

945:

1 Tipula pupa  
→ Tipula adults - primarily  
Prionocera ad.

913  
~~913~~

Lemmus teeth and bones - many.  
14 large Prionocera larvae  
2 spiders  
frags. of ad. Carabid

910:

most  
impr. →

1 ad Carabid - v. fresh  
ca. 15 Pedicia larvae - just head  
capsules - v. slp.



Macler  
1968

Stomachs - collected 1968

811 909:

- 7 Pedicia larvae 13 mm. fresh.
- 1 ad. Carabid
- 1 sm. Chironomid larva
- few sm. bone fragments

908:

- 11 + Prionocera larvae
- 10 + Pedicia larvae (another 10 heads)
- 2 ad. Carabids
- 4 Chironomid larvae - sm.

906:

- 1 fresh Prionocera larva - 32 mm.
- 3 obs Prionocera
- 72 + Pedicia larvae
- 2 ad. Carabids
- 2 Brachycera larva
- 4\* Chironomid larva - sm.
- 32 Carabid larvae

1060:

- 15 Chironomid larvae - large
- 3+ trichoptera larvae

996:

- 4 + large Chironomid larvae
- 20 sm. Chironomid larvae - obs.
- much plant material

994:

- 60 sm. Chironomid larvae



✓  
Maches  
1968

Stomachs - collected 1968

811 990:

ca. 25 sm Prionocera larvae  
10 sm. Chironomus larvae  
ca 6 trichoptera larvae  
10 Daphnia Ephemera

989:

many trichoptera larvae - most impt.  
1 Brachycera pupa  
few sm. Chironomus larvae  
few sm. Prionocera larvae

988:

50 large Chironomus larvae  
15 Daphnia Ephemera

907:

9 fresh Pedicia larvae - all > 17mm  
35 older Pedicia larvae - large  
3 do Prionocera larvae

897:

2 Spiders  
25 Pedicia larvae  
50 large Chironomus larvae - older  
10 sm. Chironomus larvae  
bags of ad. Carabids

896:

25 Pedicia larvae  
1 Tipula larva - large  
1 Spider  
4 Brachycera larvae - do.





March  
1968

Stomachs - collected 1968

893:

3 Pedicia larvae (12, 14, 16 mm)

Lemmus teeth and bones - many

1 ad. Ceratops

ca 5 brachycera pupae

ca. 300 sm. Chironomus larvae

892:

Lemmus bones - many

78 ad. Ceratops

2 Ceratops larvae

ca. 25 sm. Chironomus larvae

3+ sb. Pedicia larvae

1 Brachycera pupa

891:

Lemmus teeth and bones

most conspicuous { 6 Ceratops larvae - fresh

10 Ceratops adults - 2 fresh

15 sb. Pedicia larvae

35 sm. Chironomus larvae - sb.

890:

2 Brachycera pupae

25 sb. sm. Chironomus larvae

frag. of ad. Ceratops

frag. of Pedicia larvae: head caps.

889

3 v. fresh Pedicia larvae (19, 19, 17 mm)

20 sb. Pedicia larvae

2 l. Tipula larvae

5 ad. Ceratops



Macler  
1968

# Stomachs - collected 1968

84889 - CONT.

8 ~~8~~ Cerabio larvae  
ca. 20 sm. Chironomus larvae - do

887: frags of (several) ad. Cerabios

886: 3 Spiders  
3 ad. Cerabios  
10 Tipula larvae - med to large

885: nearly empty -  
1 Brachycera pupa  
frags. of Tipula larva

881 12 + do Pedicia larvae  
3 sm. Chironomus larvae - do  
frags. of ad. Cerabio  
much plant material.

880 2 ad. Cerabios  
6 spiders  
3 Priocera larvae  
1 ~~ad.~~ Brachycera pupa  
few Pedicia larvae - do (head caps)  
15 sm. Chironomus larvae  
2+ trichoptera larvae  
1 ad. tenthrudinidae



March  
1968

Stomachs collected 1968

SN 878 :

3 + Pedicia larvae

frags. of Prionocera larva - v. old.

ca. 25 v. old sm. Chironomid larvae

2 ~~Lygus~~ Linyphiid spiders.

9 orange SEEDS.

frags of as. carabid

877:

10 Pedicia larvae

3 Brachyura larvae

1 Carabid larva

15 sm. Chironomid larvae

1 Lycosid spider

frags. of as. carabid

876:

20+ Pedicia larvae

1 Tipula larva

10 sm. Chironomid larvae - fresh + 20 old

Lycosid spider

870:

nearly empty:

1 Carabid larva (head)

869:

<sup>23</sup>  
~~23~~ large Prionocera larvae

8 Pedicia larvae - 2 v. fresh (13, 17mm)

1 Lemmus bone - head of femur

10 sm. Chironomid larvae

6 SEEDS



Mochee  
1968

# Stomachs - collected 1968

811 865:

- 10 Tipula larvae
- 5 ad. Carabids
- 1 Lycosid spider
- 1 Brachycera larva
- 1 Smallish (ca. 10 mm) Pedicia larva

864:

- 1 fresh giant Tipula larva. 30mm  
(may be bloated - it's immense!)
- 4 Pedicia larvae
- 6 sm. Chironomid larvae
- 6 beetles
- Frag of ad. Carabid

860:

- 4 Tipula larvae
- 5+ Pedicia larvae
- 5 sm. Chironomid larvae
- 2 Lycosid spiders
- Frag. ad. Carabid
- 1 Brachycera pupa

PIPG - ad ♂ C. melanotos 24 July, 1968. 107.3g injected

> 1 ad. Brachycera  
ca. 250 + sm. Chironomid larvae





Maechen  
1968

# Stomachs - collected 1968

811 997:

nothing

968:

frags. of as + tipulidae - mostly eggs.

895:

1 Prionocera larva  
2 collembolans  
4 as. Staphylinids (1 v. small)  
1 as. carabid  
6 Spiders (Lycosid)  
2+ tenthredinid larvae

976:

1 Prionocera larva  
1 as. Brachycera  
1 Brachycera larva

1004:

1 large, fresh anostracan  
2 obov  $\nearrow$  (manisibles)  
5 fresh + ? sb large, red chironomid l.  
1 trichoptera larva

[note: now that I have finally seen a fresh anostracan in a stomach, I know that some of the unidentified fragments in the past were manisibles of these.]

991:

9 large orange SEEDS  
9 (sb) large red chironomid larvae  
frags. of Pezomachus larvae (few)



Maeches  
1968

Stomachs - collected 1968

sn 998 :

3+ trichoptera larvae

928:

4 ~~8~~ Prionocera pupae (3 v. large, 1 much smaller.)

1 ♂ ad. Prionocera

1 Brachycera larva (8mm)

1 Lycosid spider

1 Prionocera larva

note:

2 v. large Prionocera pupae  
are in precisely the same stage of  
development (length of wing rudiment =) and  
same degree of digestion - ∴ taken together.

926

9 Pedicia larvae

2 Brachycera larvae - large

17 Brachycera pupae - 15 ♂ + 2 ♀

2 Prionocera (?) Pupae

2 Lycosid spiders

930:

4+ Prionocera pupae

2 Brachycera pupa

ca. 8 Pedicia larva - old (head caps.)

938

3 fresh + 8 old Prionocera larvae

2 Brachycera larvae

Lycosid spiders

cont.

frag. of ad. Carabid - 2 heads



Stomachs - collected 1968

938 cont : frags. of ad. tipulid  
(inc. black eggs.)

937: 14 ± fresh Lycosid spider  
1 ad. Carabid  
1 ad. tenthrionid  
35+ sm. ad. nematocera  
3 Prionocera larvae - ob

943: 3 Dytiscid adults - 1+ fresh, 2 obs.  
1+ Prionocera larvae - ob

981: mass of plant fibers  
Daphnia ephippia  
v. small anostracan

929: 7 Lycosid spiders  
25 Brachycera pupae  
3 Pedicia larvae

953: Unintelligible stew of ad. insects  
(Diptera) [no tipulid eggs - prob. sm nem.]  
1 ad. Carabid

917:  $\phi$

983: 25+ ad. Ichneumonids (mostly heads)  
1 Lycosid spider



✓  
Macher  
1968

Stomachs - collected 1968

811 982:

10+ trichoptera larvae  
25+ Chironomus larvae - small.

974:

1 sm. chironomus larva!

999:

4 tenthrionis larvae  
2+ ad. Ichneumonids  
1 Lycosid spider  
frags. of ad. Carabid

993:

2 Lycosid spiders  
tipulid eggs  
2+ ten thrionis larva  
frags. of ad. Carabid

979:

frags. of ad. diptera, inc. tipulidae,  
Brachycera (more in recognizable frags.)

992:

20 sm. Chironomus larvae  
? trichoptera larvae (cuttings)

995:

250 sm. Chironomus larvae  
(small type, but ca. 9-10 mm long)

888

7 Lycosid spiders  
1 Brachycera larva  
2+ Staphylinid adults  
frags. Carabid ad.





Moche  
1968

## Stomachs - collected 1968

SM 935 :

ca. 20+ sm. Chironomid larvae  
frags. of sm. ad. Nematocera

1005 :

ca. 12 Trichoptera larvae  
1 ad. Brachycera

1006 :

mostly sm. ad. Nematocera  
1 ad. Carabid

934 :

mostly sm. ad. Nematocera  
12 pupae " - fresh  
larvae " - do

the following 4 stomachs belong to juvenile C. alpinus  
taken 18 July, 1968 at trapline I - 2.6, 2.8,  
3.2, and 3.4. Weights: 28.6, 29.4, 31.7,  
34.7 grams (not inj.)

a)

several ad Hymenoptera (Ichneumonidae)  
→ frags. of ad. Tipulidae

b)

v. large sm. ad. Nematocera  
frags. of sm. ad. Nematocera  
fewer frags of ad. tipulidae

c)

v. fresh ad. ♀ Tipula  
frags. of ad. tipulidae,  
sm. ad. diptera - Nematocera



Maeha  
1968

# Stomachs - collected 1968

u. C. alpina

11 Oct 18

ly-trapline I.

d)

u. fresh ♂ ad. tipula

→ frags. of ad. tipulidae

"

sm. ad. Nematocera.

1007 :

3 ev

933 :

→ many sm. ad. nematocera  
pupal "

960 :

tipulid eggs.

1 trichoptera larva

985 :

250 + sm. Chironomid larvae - fresh.

984 :

→ sev. ad. Hymenoptera + frags.  
frags. of ad. Brachycera  
frags. of ad. tipulidae  
frags. of ad. Ceratobis

966 :

fresh ad. ♀ Tipula

frag. of ad. ceratobis

973 :

sm. ad. nematocera - old frags.

961 :

2 lemmus teeth

frags. of ad. tipulidae



Maehren  
1968

# Stomachs - collected 1968

84 962 :

10 Trichoptera adults  
3+ ad. Brachycera  
1 Lycosid spider  
sev. + frags. sm. ad. nematocera.

963 :

frags. of ad. tipulidae, other  
ad. insects.

964 :

1 ad. Carabid  
1 ad. Tipula

975 :

frags. of ad. insects

971 :

♂ ad. Pedicia  
Lemmus tooth  
ad. Trichoptera  
ad. brachycera  
ad. tipula  
larva Trichoptera

972 :

stew of ad. Diptera



MacLean  
✓ 1968

# Stomachs - collected 1967

SM 850

13 Sm. Chironomid larvae  
3 trichoptera larvae

849

ca. 100 Chironomid larvae - small.

839

frags. of ad. Chrysolina  
9 ~~♂~~ + tenthredinid larvae (head capsules)  
1 ad. ~~tenthredinid~~ Ichneumonid  
1 ad. Braconid

844

1 Prionocera larva - old.

854

1 ad. Ichneumonid  
ca. 30 Chironomid larvae  
1 Pedicia larva

843

nothing recognizable

838

2 large Chironomid larvae





✓ Maheen  
1968

# Stomachs - collected 1967

841

frags. of ad. Ceratix  
(few parasitic nematodes)

842

nothing recognizable

846

✓ Spider

~~tenthredinid larva~~

ca. 10 v. large chironomid larvae

(might be larva of <sup>[don't think so.]</sup> unident. tipulid ??)

20 ± large chironomid larvae

848

1 fresh tipula larva - 27mm +

2 fresh tenthredinid larvae

20 older tipula larvae

4 older tenthredinid larvae

2 large ad. Ichneumonids

847

5+ v. large Chironomid larvae (as 846)

10+ l. Chironomid larvae.



Maclean  
1968

Stomachs - collected 1967

✓

848

1 large Prionocera larva  
15+ small Chironomus larvae

835

1 fresh tenthredinid larva  
1 fresh ad. Carabid  
9 Tipula larvae  
2 tenthredinid larva

836

50+ large red Chironomus larvae

837

150+ large Chironomus larvae  
(includes some very large.)

840

1 Trichoptera larva  
frags. of ad. Carabid

829

frags. of ad. Carabid

825

4 Tipula larvae



Machean  
1968

Stomachs - collected 1967

833

10 fresh small Chironomid larvae  
ca. 40 doer " " "  
1 Pedicia larva (head capsule)

831

ca. 20? do large Chironomid larvae

832

nothing recognizable

827

2 Pedicia larvae  
several trichoptera larvae

826

2 ad. Carabids  
8+ Tipula larvae

830

frags. of ad. Carabid  
Carabid larva

two 105

5+ Tipula larvae  
2 ad. Carabids  
1 Carabid larva



Machean  
1968

Stomachs - collected 1967

SN 816

ca. 100 large to v. large Chironomus larvae  
(some w/ v. large heads - total l. to 18mm)

813

ca. <sup>30</sup>~~25~~ Chironomus larvae  
1 old Tipula larva  
frags. of as. Carabid  
12 mites

812

ca. 100 large Chironomus larvae  
(some v. large - as SN 816)

823

several trichoptera larvae  
ca. 35 large red Chironomus

822

ca. 15 old Chironomus larvae - sm?  
1 parasitic nematode

815

ca. 35 l. to v.l. Chironomus larvae  
1 parasitic nematode

818

(cont.)  
ca. 20 l. and v.l. Chironomus larvae  
frags. of as. Carabid





Machan  
1968

# Stomachs - collected 1967

818 (cont.)

3 parasitic nematodes

814

5 mites

few old chironomid larvae - sm?

817

Anostraca soup (red mess - recognizable fragments.)

819

[ esophagus: 15 v. large Chironomid larvae  
stomach: ca 50 more of the same  
2 (?) trichoptera larvae  
→ these ca. 18 mm.

809

6 fresh + 20 old Chironomid larvae - sm.  
1 parasitic nematode

807

esophagus: 4 sm. Chironomid larvae  
stomach: ca. 30 more of the same  
4 mites

806

ca 40 sm. Chironomid larvae  
5 mites



Maclean  
1968  
✓

Stomachs - collected 1967

803

5 Tipula larvae  
1 ad. Ceratobis

799

ca. 35 sm. Chironomus larvae

802

1 large Muscis larva  
1 ad. Tipulis (wing)  
ca. 10 Chironomus larvae  
trichoptera larvae

808

5 v. large Chironomus larvae  
~~48~~ sm. chironomus larvae  
1 parasitic nematode

800

7 v. large Chironomus larvae  
? also small " "  
1 parasitic nematode

804

3 Tipula larva  
1 ad ceratobis  
Lycosid spider  
frag. of ad. Tipulis wing



✓  
Machean  
1968

# Stomachs - collected 1967

805

19 lq. Tipula larvae  
1 ad. Hymenopteran - tenthrasinio?  
1 Pedicia larva  
1 Tenthrasinio larva  
ca. 5. ad tipulids - wings  
frags. of ad. Cerabio

779

ca. 30 small Chironomid larvae  
1 collembolan  
1 ad. Chironomid

792

100 + sm. Chironomid larvae

797

esophagus: 8 sm. Chironomid larvae  
stomach: 25 more of 1,

796

esophagus: 15 sm. Chironomid larvae  
stomach: 50 more.

791

1 large Prionocera larva  
5 fresh Chironomid larvae - 6mm.  
15 old " " "



Maclean  
1968

# Stomachs - collected 1967

788

nothing recognizable

794

40 small Chironomid larvae

801

ca. 100 Chironomid larvae - 9mm.

798

15 fresh + ca. 20 do Chironomid larvae - 9mm.

795

Esophagus: 6 Chironomid larvae - 9mm  
stomach: ca. <sup>100</sup>~~5~~ more " " "

785

ca. 42 + sm. Chironomid larvae  
frag. of ad. Tipulid wing

790

3+ ad. Hymenoptera (heads)  
frag. of ad. Tipulid wing  
1 ad. Carabid  
1 do Tipula larva





Maheen  
1968

Stomachs - collected 1967

786

ca. 10 Trichoptera larvae  
1 large spider  
1 Chironomus larvae  
1 small spider  
frag. of ad. tipulid wing

787

1 Carabid larva

789

4 ad. Ichneumonids (wing count)  
1 spider  
1 v. old Pedicia larva

775

ca. 50 Chironomus larvae - 6-7mm

778

ca. ~~40~~<sup>50</sup> sm. ad. dipterans - sensu Chironomidae  
1 large ad. Brachyceran  
ca. 50 sm Chironomus larvae - 7-8mm

782

ca. 75 Chironomus larvae - 7mm  
1 sm. ad. diptera  
1 + ad. tipulid - wings



Maclean  
1968

Stomachs - collected 1967

784

esophagus: Prionocera larva - 27mm

stomach: 1 Prionocera larva

ca. 100+ Chironomid larvae - 8mm

~~as. tipula wings~~ 2

1 as. Muscid

1 sm. as. Diptera

783

2+ trichoptera larvae

1 as Muscid - wing

780

2 sm. as. diptera

ca. 25 sm. chironomid larvae

4 mite

781

1 sm. as. diptera

4+ as. Hymenoptera (Chalcids)

1+ trichoptera larva

776

20 Chironomid larvae - 6-8mm

1 " " - 10 mm



Maclachlan  
1968

Stomachs - collected 1967

773

15+ Tipula larvae  
1 Chrysoline larva  
1 ad. Chrysoline  
tipulis adults - lots, inc. eggs.

777

5+ sm. ad. diptera  
25+ sm. Chironomid larvae

774

frags. of ad. tipulids, inc. eggs.  
(note: both black and orange eggs.  
Are orange sloer, or could they be  
Priocera? Check this.)

763

ca. 40+ Chironomid larvae - 9mm - 10mm

768

11 Tipula larvae (one = 22mm)  
1 Lycosid spider  
2 ad. Carabids  
1 ad. Muscio  
1 Pericid larva



✓  
Machens  
1968

# Stomachs - collected 1967

764

ca. 40+ Chironomus larvae - 7mm - 9mm  
ao. Muscis (wing)  
Tipulis eggs - ca. 20. (ao.?)  
sm. ao. Diptera (wings)

770

ao. ♀ Tipula + other ao. tipulids  
frag. of ao. carabid  
2 Dytiscid larvae  
(note: these appear v. fragile -  
probably easily lost.)

771

26+ Pedicia larvae  
5~~4~~ Tipula larvae  
ao. tipulids, inc. eggs (few)

762

ca. 40 Chironomus larvae - 7-8mm  
ao. Chironomus  
several (?) v. large Chironomus larvae  
ca. 8 trichoptera larvae  
frag. of ao. tipulis





✓  
Machean  
1968

Stomachs - collected 1967

772

1+ Pedicia larvae : 12-13mm ( $\pm$  fresh) 1  
12+ Tipula larvae  
Salix rotundifolia leaves

766

15 Parasitic nematodes - lower esophagus  
1 Lycosia spioer  
1 ad. Muscio  
ad. tipulis frags, inc. ca. 150 eggs.  
1 ad. Carabid

760

frags. of ad. tipulis, inc. ca. 20 eggs.

765

2+ Prionocera larva  
ca. 100 Chironomid larvae : 8-9mm  
10++ 8m. ad. diptera  
ad. tipulis ♂ + frags.  
trichoptera larva



Maheba  
✓ 1968

# Stomachs - collected 1967

SN 752: primarily { some ♀♀ too, but more ♂♂  
ca. 20 ♂ ad. tipula - fresh  
1 Prionocera larva - large  
1 Pezicia larva - sm  
1 Brachycera larva  
2 pieces of bone (avian cervical vertebrae)

SN 751: ad. tipula 2 ♂ + 4 ♀ ++  
1 Prionocera larva (35mm)  
most imp. → 27 tipula larvae (large - > 15mm)  
13 ad. Carabids  
23 Dytiscio larvae  
1 Spider

SN 753

many ad. tipula (many ♀♀)  
1 tipula larva  
frag. of ad. Carabid



Maclean  
1968

11 August

✓  
SN 953 : heavy fat. Cut skin of neck circumferentially around neck, then along dorsal length of neck to level of leading edge of wing. then as circumferentially, connecting leading edge of each wing with anterior point of carina. Removed skin with all noticeable fat from cervical region. Careful to leave pectoral fat pads, which are quite distinct: white, while cervical fat is yellow. There is a dorsal cervical deposit; took this with the cervical region.

t = 4.5 mm

✓  
SN 937 : There are 2 dorsal cervical fat deposits, lying longitudinally along either side of the neck. These remain with the carcass, and seem different in texture from the cervical fat deposit. kept these with the body, as did the deep interfurcular fat, which is white like the pectoral fat pads.  
moderate fat; t = 13 x 6 mm

✓  
SN 929 : moderate fat; left testis broken, right testis 10 x 6 mm.

✓  
SN 928 : wet weight of a.f.d. > 20 g.  
light fat; t = 11 x 7 mm.



Mackay  
1968

11 August

✓  
SN 943 : very heavy, advanced molt. New feathers erupted from sheath.

Part of the fat which came off with neck skin does not appear to be associated with the c.f.o. per se.

Heavy fat;  $t = 6 \times 3 \text{ mm}$

✓  
SN 938 : Advanced molt  
fat light;  $t = 10 \times 5 \text{ mm}$ .

12 August

✓  
SN 930 : advanced molt. fat v. heavy;  $t = 5 \times 2.5 \text{ mm}$ .

c.f.o. per se nearly gone, however fat from interfurcular region has spread over skin and come away with neck skin. Cannot completely delineate c.f.o.

✓  
SN 926 :  $t = 9 \times 5 \text{ mm}$ ; heavy fat. limits of c.f.o. again unclear - extra fat included w/ skin.

✓  
SN 981 : Heavy molt - new feathers erupted from sheaths. took cervical skin separately, as above. lg. fat. 1mm; moderate fat.





Macler  
1968

27 September

✓ all birds oven dried at 50° C.

✓ SM 910 :  $t = 12 \times 7$  mm; fat very light.

✓ 996 : no c.f.o. . heavy deposit of white, cakey fat in interfurcular region - some of this comes off with the skin.  
Heavy fat;  $t = 2 \times 1$  mm.

✓ 902 : fat very light;  $t = 12 \times 7$  mm.

✓ 994 :  $t = 2 \times 1$  mm; fat light

✓ 989 : ♀ imm.; ova  $< 1$  mm; fat very light.

1 October

✓ 988 : ~~moderate~~ Heavy fat; t. shot

✓ 887 : very light fat;  $t = 10 \times 6$  mm.

✓ 918 : light fat;  $t = 12 \times 8$  mm

4 October

✓ 990 : moderate fat;  $t = 3 \times 1$  mm

✓ 906 : light fat;  $t = 9 \times 6$  mm

✓ 913 : ♀ moderate fat; ova 14, 7 mm + 2(?) rupt. follicles.



Maclean  
1968

4 October

✓ 811 952: fat moderate.  $t = 7 \times 3$  mm  
heavy molt.

✓ 900: (nest #1) Heavy! fat. ova to 4 mm,  
oviduct  $\pm$  regressed. b.p. present.

✓ 901: (nest #2) Heavy fat. ova to 3 mm;  
oviduct partially regressed, b.p. present.  
rupt. foll. still visible.

7 October

✓ 949: ♀ ad. ova to 3 mm; moderate fat.

✓ 945:  $\pm$  advanced heavy molt.  $t = 5 \times 3$ ; moderate fat.

✓ 944: Heavy molt - early stages. feathers just  
erupting from sheaths.  $t = 6 \times 4$  mm; moderate fat.

8 October

✓ 948: Heavy molt. feathers 2-5 mm erupted from  
sheaths. Moderate fat.  $t = 6 \times 3$  mm.

✓ 869: light fat.  $t = 14 \times 8$  mm. no molt. 2 pedic  
larvae in mouth.

✓ 881: much fat w/ neck, but does not have  
texture of c.f.o.  $t = 14 \times 8$  mm; heavy fat

9 October

✓ 939: Heavy molt - early stage - pin feathers.  
 $t = 10 \times 6$  mm; fat moderate



Nest #1

♀ = 73.2 gm.

empty  
can = 72.4

~~~~~

Egg #1 85.0 = 12.6 gm  
#2 85.6 = 13.2 gm  
#3 85.0 = 12.6 gm  
#4 85.1 = 12.7 gm

catalogue # 900

~~50.1~~ = Total  
49.1 = Total  
~~X = 12.2~~

1  
51.1 = Total

12.78 =  $\bar{X}$

Nest #2

♀ = 67.6 gms.

empty can = 72.4

Egg  
#1 = 84.4 = 12.0  
#2 = 84.3 = 11.9  
#3 = 84.9 = 12.5  
#4 = 84.3 = 12.1

catalogue # 901

48.5 = Total

$\bar{X}$  12.127

!



Maehren  
1968

10 October

✓  
811 908: lighter fat;  $t = 12 \times 7 \text{ mm}$ ; no molt.  
large c.f.d. Pedicia larvae in mouth.

✓  
909: very lighter fat;  $t = 15 \times 9 \text{ mm}$ ; no molt.

11 October

✓  
860: lighter fat;  $t = 14 \times 8 \text{ mm}$ ; no molt.

✓  
865: lighter fat;  $t = 12 \times 7 \text{ mm}$ ; ~~not~~ replacing  
one retrix - otherwise no molt.

12 October

✓  
876: ♀. ova to 4 mm, oviduct not enlarged;  
moderate fat; no molt.

13 October

✓  
880:  $t = 10 \times 5 \text{ mm}$ ; ~~lighter~~ fat moderate.

14 October

✓  
885:  $t = 14 \times 8 \text{ mm}$ ; moderate fat.

✓  
886: ♀ - ova to 5 mm, oviduct enlarged. Heavy fat.

✓  
1000: ♂ imm. -  $t = 2 \times 1 \text{ mm}$ ; very heavy fat.

15 October

✓  
889:  $t = 12 \times 8 \text{ mm}$ ; moderate fat. Pedicia larvae  
in stomach and esophagus.

✓  
890:  $t = 11 \times 7 \text{ mm}$ ; moderate fat.

✓  
893: ♀ - ova to 5 mm, Heavy fat.





Maclean  
1968

16 October ✓  
SN 911:  $t = 15 \times 8$  mm; moderate fat.  
16 fresh Peoia larvae in mouth and  
upper esophagus.

✓  
912:  $t = 11 \times 5$  mm; light fat; heavy molt-  
early stages (pinfeathers to ca 6 mm - none  
erupted from sheaths.)

17 October ✓  
905:  $t = 15 \times 9$  mm; very light fat

✓  
904:  $t = 12 \times 8$  mm; light fat;  
flukes (?) & cysts in abdominal cavity.

✓  
903:  $t = 12 \times 8$  mm; light fat. Group of  
molting feathers in scapular tract - probably  
replacement.

18 October ✓  
878:  $t = 13 \times 8$  mm; moderate fat

✓  
877: ♀ - ova to 7 mm; moderate + fat.

19 October ✓  
954: ♀ - Heavy molt - early stages (feathers  
ca 1-2 mm out of sheaths. Total length to  
1 cm.). Ova < 1 mm; fat moderate.

20 October ✓  
870:  $t = 14 \times 8$  mm; moderate fat.

in 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



Maclean  
1968

✓  
21 October • SN 897 : lighter far;  $t = 13 \times 6 \text{ mm}$

22 October • 896 : lighter far;  $t = 12 \times 7 \text{ mm}$

✓  
951 : molt - body plumage is a mixture of old feathers and new feathers that are almost completely formed. Feathers of lower neck, breast, and upper back are out of sheaths; feathers of lower belly and back and under tail coverts are still (barely) in sheath. No new feathers on upper neck & head; some short brushes in face. Apparently this bird began to molt heavily, then stopped forming new feathers while carrying those that had already begun on to completion. One contour feather shows an open growth bar, suggesting nutritional deficiency after molt has begun.

Heavy far;  $t = 4 \times 2 \text{ mm}$ .

Far coming off w/ cervical skin lacks texture of c.t.o..

✓  
955 : molt - heavy over entire body - early stage - pin feathers and short brushes. Heaviest on neck.

Heavy far; out to 1 mm.



Maclera  
1968

24 October • SN 907: ♂ -  $t = 14 \times 7$  mm; very light far  
no molt. took several photographs.

25 October • SN 941: ♂ -  $t = 11 \times 6$  mm; heavy far.  
molt just beginning - pin feathers just emerging  
from skin. took photographs to contrast  
w/ above.

892: ♀ - Heavy far. Ovary short - but  
remaining ova are  $> 4$  mm; oviducts and  
cloaca not greatly distended; no sign of  
b.p. Plummage fat & blood-soaked.

891: ♀ - Heavy far; ova to 5 mm; oviducts  
coming up; no b.p. Adventitious molt -  
middle & rectrices - ca. 30 mm long - just  
erupting from sheaths; lateral rectrices  
severely worn.

26 October • 864:  $t = 14 \times 8$  mm; moderate far. Fresh  
tipula larva in upper esophagus.

950: ♀ - Heavy molt - brushes over  $\pm$   
entire body. Heavy far; ova  $< 1$  mm.

27 October • 956: ♀ - Heavy molt - well advanced -  
some contour feathers  $\pm$  functional.  
ova to 1 mm; heavy far.



March  
1968

- 27 October • SN 947: Heavy molt - well advanced.  
 $t = 6 \times 3 \text{ mm}$ ; moderate far.
- 28 October • ♂ 946: Molt essentially complete - only small amount of feather growth still occurring.  
Heavy far;  $t = 5 \times 2 \text{ mm}$ .
- C. alpina 879? : ♀ - ova to 4 mm, light far. - no b.p. -  
oviduct not enlarged.
- 919 : ♀ - no body molt. Fully shelled  
and pigmented egg in lower part of oviduct.  
4 rupt. folls. v. light far. remaining ova  
to 6 (?) mm.
- 29 October • 868: ♂? gonads shr. light far.
- 863: ♂ -  $t = 10 \times 6 \text{ mm}$ ; light far.
- 861: ♀ - ova to 2 mm; light far.
- 862: ♀ - ova to 3 mm; light far
- 31 October • 883: ♀ - ova to 5 mm + 4 rupt. foll; light far.  
b.p. present. Oviduct still large.
- 882:  
♀ - ova to 9 mm + 4 (?) coll. foll.  
very light far, b.p. +; oviduct large.





Maclean  
1968

31 October • sn 884: ♀ - b.p. + . . Ovary 9mm + 4(?) coll.  
follicles; v. light fat. Ovary still ± enlarged.  
note: this bird has a large notch in  
~~the~~ the carina, with atrophy of the  
pectoral muscles in that area.

866: ♀ - no b.p. ova to 4mm; ovary  
coming up. Heavy fat!

1 November • 867: ♀ - 2<sup>sure</sup> rupt. follicles!!! ova to 5mm,  
light fat. Ovary v. large - looks like  
most recent egg was within last 2 days.

2 November • 875?: ♀ no b.p. ova to 10mm; ovary  
large. light fat.

965: ♀ - b.p. refeathering. ova < 1mm,  
light fat. Molt heavy and advanced  
on wings - just getting underway  
body.

1003: ♀ - b.p. refeathering - early stage.  
v. l. fat - ova < 1mm. Molt as 965.

967: ♀ - no body fat, ova < 1mm.  
molt heavy: advanced - wing and tail,  
early on body.



Maehren  
1968

2 Nov.

- SN 874? : ♂ - t = 14 x 9 mm, light + fat.  
no molt.

3 Nov.

- 942 : ♀ - ova to 2 mm, light fat.  
heavy molt on wings - no body molt.
- 924 : ♀ - fresh ovum in oviduct - no  
shell - 21 mm. dia. ; next ovum 15 mm.  
(2 rupt. foll.); 3<sup>rd</sup> ovum 7 mm (this would  
be 4<sup>th</sup> of clutch.) no visible fat.
- 919 : ♀ - ova 17, 10, 5, 5 ; no rupt. foll.  
no visible fat ; wing molt.  
Dried 2 largest ova separately. (1.595g.)
- 957 : ♀ - trapline, but appears to have died ±  
suddenly. light fat. ova < 1 mm.  
active b.p. [Stomach ± full.]

4 Nov.

- 923 : ♂ - t = 7 x 4 mm; v. light fat.  
[stomach empty.]
- C.B. 894 : ♂ - t = 10 x 6 mm; mod. fat ; no b.p.
- 898 : ♀ - light fat. ova to 5 mm + 4 rupt. folls.
- C.C. 920 : ♀ - ova to 3 mm, oviduct small;  
fat moderate - [stomach empty.]



Maclean  
1968

[stomach nearly empty]

4 November • SM 916: ♀ - ova 12, 5 + 2 rupt. follics.  
v. light fat. Oviduct enlarged.

5 November ✓ C.m. 940: ♀ - light fat. ova ? - but small.  
b.p. + ; no molt.

✓ C.b. 899: (hand-killed) ♂ -  $t = 8 \times 4 \text{ mm}$ ; mod. fat

✓ 936: Heavy body molt. ♀ - ova to 1 mm,  
heavy fat.

21 Nov. ✓ 997: [note - this bird was mistakenly  
left in refrigerator for 2 weeks. It is very ana-  
smells a bit musty, but not enough to  
suggest serious deterioration.]  
♂ imm;  $t = 3 \text{ mm}$ , fat light

✓ 968: as above - thawed 2 weeks,  
but condition is not too bad.  
v. heavy molt. ♂ - light fat,  $t = 3 \text{ mm}$ .

✓ 895: ♂ -  $t = 10 \text{ mm}$ , light fat.  
as 997 and 968 - do.

22 Nov. ✓ 976: Still down on nape, rump. feathers  
actively growing. very light fat.  
♀ - ? - gonads minute.



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22 Nov. ✓ 28-VIII: 62.9g. - 1004  
Active feather growth post-juvenile  
molt. v. light fat - ♀ - ova minute.

24 Nov. ✓ 991: Heavy fat;  $t = 3\text{mm}$ . no active molt.

✓ 998: (trapline) Heavy fat. ova minute.

25 Nov. ✓ 983: no-very light fat.  $t = 2\text{mm}$

✓ 982: ~~light~~ fat moderate.  $t = 2\text{mm}$ .

✓ 917: trapline. No body fat; presumably  
starved to death. ♂:  $t = 11 \times 7\text{mm}$ .

✓ 992: moderate fat; ova minute.

26 Nov. ✓ 995: ♀ - moderate fat; ova minute.

✓ 888: ♀ - ova to  $3\text{mm}$  + 4 recently rupt. follicles.  
b.p. forming. Moderate fat.

✓ 935: Heavy body molt. ♀? - if so, ova  $> 1\text{mm}$ .  
fat moderate.

27 Nov. ✓ 1005: Imm ♀? - if so, ova minute. light fat.

3 Dec. ✓ 1006: v. Heavy fat - ♀? ova  $< 1\text{mm}$





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3 Dec. SM-934 : ♂ - t = 5 mm, Heavy far, Heavy mob.

5 Dec. 933 : ♀ - out to 1 mm, Heavy - far, Heavy mob.

1007 : ? - goes in more. No far.













